

[illegible]

[illegible]


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011000100100000000000000
011001100100000000000000
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011000100100000000000000 -
011001100100000000000000
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011001100100000000000000
011000100100000000000000 -
011001100100000000000000 -
011000100100000000000000
011001100100000000000000
011000100100000000000000
011001100100000000000000
011000100100000000000000 -
011001100100000000000000 -
011000100100000000000000
011001100100000000000000
011000100100000000000000
011001100100000000000000 -
011001100100000000000000 -
011000100100000000000000
011001100100000000000000
011000100100000000000000
011001100100000000000000 -
- VBLK Clear 49th clock
011000100100000000000000 -
011001100100000000000000
011000100100000000000000
011001100100000000000000
011000100100000000000000 -
- 0 --> A11, 0 --> DGKS
001001100001010001000000 -
001000100001010001000000
001001100001010001000000
001000100001010001000000
001001100001010001000000 -
- JP 000
001000100001100000000000 -
001001100001100000000000
001000100001100000000000
001001100001100000000000
001000100001100000000000 -
- Dump Program ROM (000) 127 addresses
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
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011000100010101010101010 -
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[illegible]

[illegible]

[illegible]

011001100010010101010101 -
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011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
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011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
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011001100010010101010101
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011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
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011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -

[illegible]

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011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
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011011100010010101010101 -
011000100010101010101010 -
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011001100010010101010101
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011011100010010101010101 -
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011001100010010101010101
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011011100010010101010101 -
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011000100010101010101010
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011010100010101010101010 -
011001100010010101010101 -
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011000100010101010101010 -
011000100010101010101010


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011000100010101010101010
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011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 080
001000100001100010000000 -
001001100001100010000000
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001000100001100010000000 -
- Dump Program ROM (080) 127 addresses
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
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011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
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011100100010101010101010
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011000100010101010101010 -
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011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
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011011100010010101010101 -
011000100010101010101010 -
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011000100010101010101010
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011010100010101010101010 -
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[illegible]

011011100010010101010101 -
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011000100010101010101010
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[illegible]

[illegible]

[illegible]

[illegible]

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011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 100
0010001000011001000000000 -
0010011000011001000000000
0010001000011001000000000
0010011000011001000000000
0010001000011001000000000 -
- Dump Program ROM (100) 127 addresses
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
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[illegible]

[illegible]

[illegible]

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011000100010101010101010
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011001100010010101010101 -
011000100010101010101010
011001100010010101010101
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011011100010010101010101 -
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011000100010101010101010
011101100010010101010101
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011010100010101010101010 -
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011001100010010101010101
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011011100010010101010101 -
011000100010101010101010 -
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011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -

[illegible]

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011001100010010101010101 -
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011000100010101010101010
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011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
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011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -

011000100010101010101010 -
011001100010010101010101
011000100010101010101010
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011100100010101010101010
011011100010010101010101 -
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011001100010010101010101
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011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 180
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0010011000011001100000000
0010001000011001100000000
0010011000011001100000000
0010001000011001100000000 -
- Dump Program ROM (180) 127 addresses
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011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
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011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
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011010100010101010101010 -
011001100010010101010101 -
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[illegible]

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011001100010010101010101 -
011000100010101010101010
011001100010010101010101
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011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
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011001100010010101010101
011100100010101010101010
011011100010010101010101 -

011000100010101010101010 -
011001100010010101010101
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011001100010010101010101 -
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[illegible]

[illegible]

[illegible]

[illegible]

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011000100010101010101010
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011000100010101010101010 -
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011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
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011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321

- JP 200
001000100001101000000000 -

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001000100001101000000000
001001100001101000000000
001000100001101000000000 -
- Dump Program ROM (200) 127 addresses
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011001100010010101010101
0111001000101010101010
0110111000100101010101 -
0110001000101010101010 -
011001100010010101010101
0110001000101010101010
011101100010010101010101
0110101000101010101010 -
011001100010010101010101 -
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0110101000101010101010 -
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[illegible]

[illegible]

[illegible]

[illegible]

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011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
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011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
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011011100010010101010101 -
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011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -

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011011100010010101010101 -
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011001100010010101010101 -
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011100100010101010101010
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011101100010010101010101
011010100010101010101010 -
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011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
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011000100010101010101010
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011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -

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011000100010101010101010
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011010100010101010101010 -
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011000100010101010101010
011001100010010101010101
011100100010101010101010
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011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
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011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 280
001000100001101010000000 -
001001100001101010000000
001000100001101010000000
001001100001101010000000
001000100001101010000000 -
- Dump Program ROM (280) 127 addresses
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
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011000100010101010101010
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011010100010101010101010 -
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011010100010101010101010 -
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011000100010101010101010 -
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011101100010010101010101
011010100010101010101010 -
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011001100010010101010101 -
011000100010101010101010
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011010100010101010101010 -
011001100010010101010101 -
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011011100010010101010101 -
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011001100010010101010101 -
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011000100010101010101010
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011100100010101010101010
011011100010010101010101 -
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011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
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011100100010101010101010
011011100010010101010101 -
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011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
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[illegible]

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[illegible]

[illegible]

011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321

- JP 300
001000100001101100000000 -
001001100001101100000000
001000100001101100000000
001001100001101100000000
001000100001101100000000 -
- Dump Program ROM (300) 127 addresses
011001100010010101010101 -
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011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
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011000100010101010101010 -
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011010100010101010101010 -
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[illegible]

[illegible]

[illegible]

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011011100010010101010101 -
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011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 380
001000100001101110000000 -
001001100001101110000000
001000100001101110000000
001001100001101110000000
001000100001101110000000 -
- Dump Program ROM (380) 127 addresses
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
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011001100010010101010101
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011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
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011011100010010101010101 -
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011000100010101010101010
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011011100010010101010101 -
011000100010101010101010 -
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011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -

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011000100010101010101010
011001100010010101010101
011100100010101010101010
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011000100010101010101010 -
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011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
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011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -

011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
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011000100010101010101010 -
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011011100010010101010101 -
011000100010101010101010 -
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011000100010101010101010
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011010100010101010101010 -
011001100010010101010101 -
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011000100010101010101010

[illegible]

[illegible]

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011001100010010101010101 -
011000100010101010101010
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011000100010101010101010 -
011001100010010101010101
011000100010101010101010
011101100010010101010101
011010100010101010101010 -
011001100010010101010101 -
011000100010101010101010
011001100010010101010101
011100100010101010101010
011011100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
-----
- 1 --> A11
0010001000010100000000001 -
0010011000010100000000001
0010001000010100000000001
0010011000010100000000001
0010001000010100000000001 -
- JP 000
0010011000011000000000000 -
0010001000011000000000000
0010011000011000000000000
0010001000011000000000000
0010011000011000000000000 -
- Dump Program ROM (400) 127 addresses
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
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011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
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011010100010010101010101 -
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011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

011001100010101010101010 -
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011001100010101010101010
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011010100010010101010101 -
011001100010101010101010 -
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011001100010101010101010
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011011100010101010101010 -
011000100010010101010101 -
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011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -

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011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
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011010100010010101010101 -
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011001100010101010101010
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011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321

- JP 080

001001100001100010000000 -
001000100001100010000000
001001100001100010000000
001000100001100010000000
001001100001100010000000 -

- Dump Program ROM (480) 127 addresses

011000100010010101010101 -
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011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
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011010100010010101010101 -
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[illegible]

[illegible]

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011101100010101010101010
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[illegible]

[illegible]


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011101100010101010101010
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-ENENLCHHHHH1234567PDDDD
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- JP 100
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001000100001100100000000
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- Dump Program ROM (500) 127 addresses
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011000100010010101010101
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011010100010010101010101 -
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011000100010010101010101 -
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-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 180
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[illegible]

[illegible]

[illegible]

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-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 200
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- Dump Program ROM (600) 127 addresses
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-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
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- JP 280
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- Dump Program ROM (680) 127 addresses
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011001100010101010101010 -
011000100010010101010101
011001100010010101010101

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010

[illegible]

```
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
-OCWICACCCCKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
-----
- JP 380
001001100001101110000000 -
001000100001101110000000
001001100001101110000000
001000100001101110000000
001001100001101110000000 -
- Dump Program ROM (780) 127 addresses
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -

[illegible]

[illegible]

[illegible]

011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010
011000100010010101010101
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
011001100010101010101010 -
011000100010010101010101
011001100010101010101010
011100100010010101010101
011011100010101010101010 -
011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -

```

011000100010010101010101 -
011001100010101010101010
011000100010010101010101
011101100010101010101010
011010100010010101010101 -
-OCWICACCCCKKKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
-----
- Dump Pattern ROM
- 7F --> A1 (Y = 7F)
001001100101011001111111 -
001000100101011001111111
001001100101011001111111
001000000101011001111111
001001000101011001111111 -
- 7F --> A2 (X = 7F) (AC/ = 0)
001000000101011011111111 -
001001000101011011111111
001000000101011011111111
001001100101011011111111
001000100101011011111111 -
- 00 --> A3 (PTN[7:1] = 00)
001001100101011100000000 -
001000100101011100000000
001001100101011100000000
001000100101011100000000
001001100101011100000000 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001001100101011110011000
001000100101011110011000 -
- 40 --> L,H
001001100101010111000000 -
001000100101010111000000
001001100101010111000000
001000100101010111000000
001001100101010111000000 -
- A --> MA
001000100101000001010100 -
001001100101000001010100
001000100101000001010100
001001100101000001010100
001000100101000001010100 -
- M --> MODE, 3 --> L (MODE = 0)
001001100101001110001011 -
001000100101001110001011
001001100101001110001011
001000100101001110001011
001001100101001110001011 -
- H <--> X
- (X4[7:1] = X3[7:1] = 0)
- (X1' = A1' = 0)
- (L[2:1] <--> L' [2:1])
001000100101000000011000 -
001001100101000000011000
001000100101000000011000
001001100101000000011000
001000100101000000011000 -

```

- 0 --> DGKS, 0 --> A11 (DISP = 0)

001001100101010001000000 -
001000100101010001000000
001001100101010001000000
001000110101010001000000
001001110101010001000000 -

- NOP (Load 11 bits pattern)

001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001001100101000000000000
001000100101000000000000 -

- NOP (1)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (3)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

- NOP (4)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (5)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

- NOP (6)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (7)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

- NOP (8)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- 00 --> A3 (PTN[7:1] = 00)


```
001001100101011100000000 -
001000100101011100000000
001001100101011100000000
001100100101011100000000
001011100101011100000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 00 --> A3 (PTN[7:1] = 00)
001001100101011100000000 -
```

```
001000100101011100000000
001001100101011100000000
001100100101011100000000
001011100101011100000000 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 00 --> A3 (PTN[7:1] = 00)
001001100101011100000000 -
001000100101011100000000
001001100101011100000000
001100100101011100000000
001011100101011100000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 00 --> A3 (PTN[7:1] = 00)
001001100101011100000000 -
001000100101011100000000
001001100101011100000000
001100100101011100000000
001011100101011100000000 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 00 --> A3 (PTN[7:1] = 00)  
001001100101011100000000 -  
001000100101011100000000  
001001100101011100000000  
001100100101011100000000  
001011100101011100000000 -  
- 68 --> A4 (y = 6, R = 1)  
001000100101011111101000 -  
001001100101011111101000  
001000100101011111101000  
001101110101011111101000  
001010110101011111101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 00 --> A3 (PTN[7:1] = 00)
001001100101011100000000 -
001000100101011100000000
001001100101011100000000
001100100101011100000000
001011100101011100000000 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 01 --> A3 (PTN[7:1] = 01)
001001100101011100000001 -
001000100101011100000001
001001100101011100000001
001100100101011100000001
001011100101011100000001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 01 --> A3 (PTN[7:1] = 01)
001001100101011100000001 -
001000100101011100000001
001001100101011100000001
001100100101011100000001
001011100101011100000001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
```


001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 01 --> A3 (PTN[7:1] = 01)
001001100101011100000001 -
001000100101011100000001
001001100101011100000001
001100100101011100000001
001011100101011100000001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 01 --> A3 (PTN[7:1] = 01)
001001100101011100000001 -
001000100101011100000001
001001100101011100000001
001100100101011100000001
001011100101011100000001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100110010101111001000 -
00100010010101111001000
00100110010101111001000
00110011010101111001000
00101111010101111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 01 --> A3 (PTN[7:1] = 01)
001001100101011100000001 -
001000100101011100000001
001001100101011100000001
001100100101011100000001
001011100101011100000001 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
00110111010101111011000
00101011010101111011000 -

```
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 01 --> A3 (PTN[7:1] = 01)
001001100101011100000001 -
001000100101011100000001
001001100101011100000001
001100100101011100000001
001011100101011100000001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
```

```
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 01 --> A3 (PTN[7:1] = 01)
001001100101011100000001 -
```

```
001000100101011100000001
001001100101011100000001
001100100101011100000001
001011100101011100000001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 02 --> A3 (PTN[7:1] = 02)
001000100101011100000010 -
001001100101011100000010
001000100101011100000010
001101100101011100000010
001010100101011100000010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 02 --> A3 (PTN[7:1] = 02)
001000100101011100000010 -
001001100101011100000010
001000100101011100000010
001101100101011100000010
001010100101011100000010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 02 --> A3 (PTN[7:1] = 02)  
001000100101011100000010 -  
001001100101011100000010  
001000100101011100000010  
001101100101011100000010  
001010100101011100000010 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 02 --> A3 (PTN[7:1] = 02)
001000100101011100000010 -
001001100101011100000010
001000100101011100000010
001101100101011100000010
001010100101011100000010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 02 --> A3 (PTN[7:1] = 02)
001000100101011100000010 -
001001100101011100000010
001000100101011100000010
001101100101011100000010
001010100101011100000010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 02 --> A3 (PTN[7:1] = 02)
001000100101011100000010 -
001001100101011100000010
001000100101011100000010
001101100101011100000010
001010100101011100000010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 02 --> A3 (PTN[7:1] = 02)
001000100101011100000010 -
001001100101011100000010
001000100101011100000010
001101100101011100000010
001010100101011100000010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 03 --> A3 (PTN[7:1] = 03)
001001100101011100000011 -
001000100101011100000011
001001100101011100000011
001100100101011100000011
001011100101011100000011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 03 --> A3 (PTN[7:1] = 03)  
001001100101011100000011 -  
001000100101011100000011  
001001100101011100000011  
001100100101011100000011  
001011100101011100000011 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001001100101011110101000 -  
001000100101011110101000  
001001100101011110101000  
001100110101011110101000  
001011110101011110101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 03 --> A3 (PTN[7:1] = 03)
001001100101011100000011 -
001000100101011100000011
001001100101011100000011
001100100101011100000011
001011100101011100000011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
```


001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 03 --> A3 (PTN[7:1] = 03)
001001100101011100000011 -
001000100101011100000011
001001100101011100000011
001100100101011100000011
001011100101011100000011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100110010101111001000 -

```
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 03 --> A3 (PTN[7:1] = 03)
001001100101011100000011 -
001000100101011100000011
```

```
001001100101011100000011
001100100101011100000011
001011100101011100000011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 03 --> A3 (PTN[7:1] = 03)
001001100101011100000011 -
001000100101011100000011
001001100101011100000011
```

```
001100100101011100000011
001011100101011100000011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 03 --> A3 (PTN[7:1] = 03)  
001001100101011100000011 -  
001000100101011100000011  
001001100101011100000011  
001100100101011100000011  
001011100101011100000011 -  
- 78 --> A4 (y = 7, R = 1)  
001000100101011111111000 -  
001001100101011111111000  
001000100101011111111000  
001101110101011111111000  
001010110101011111111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 04 --> A3 (PTN[7:1] = 04)
001000100101011100000100 -
001001100101011100000100
001000100101011100000100
001101100101011100000100
001010100101011100000100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 04 --> A3 (PTN[7:1] = 04)
001000100101011100000100 -
001001100101011100000100
001000100101011100000100
001101100101011100000100
001010100101011100000100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 04 --> A3 (PTN[7:1] = 04)
001000100101011100000100 -
001001100101011100000100
001000100101011100000100
001101100101011100000100
001010100101011100000100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
```


001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 04 --> A3 (PTN[7:1] = 04)
001000100101011100000100 -
001001100101011100000100
001000100101011100000100
001101100101011100000100
001010100101011100000100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 04 --> A3 (PTN[7:1] = 04)
001000100101011100000100 -
001001100101011100000100
001000100101011100000100
001101100101011100000100
001010100101011100000100 -
- 58 --> A4 (y = 5, R = 1)
00100110010101111011000 -
00100010010101111011000
00100110010101111011000
00110011010101111011000
00101111010101111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 04 --> A3 (PTN[7:1] = 04)
001000100101011100000100 -
001001100101011100000100
001000100101011100000100
001101100101011100000100
001010100101011100000100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 04 --> A3 (PTN[7:1] = 04)
001000100101011100000100 -
001001100101011100000100
001000100101011100000100
001101100101011100000100
001010100101011100000100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 05 --> A3 (PTN[7:1] = 05)
001001100101011100000101 -
001000100101011100000101
001001100101011100000101
001100100101011100000101
001011100101011100000101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -

001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 05 --> A3 (PTN[7:1] = 05)
001001100101011100000101 -
001000100101011100000101
001001100101011100000101
001100100101011100000101
001011100101011100000101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000

```
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 05 --> A3 (PTN[7:1] = 05)
001001100101011100000101 -
001000100101011100000101
001001100101011100000101
```

```
001100100101011100000101
001011100101011100000101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 05 --> A3 (PTN[7:1] = 05)
001001100101011100000101 -
001000100101011100000101
001001100101011100000101
001100100101011100000101
```



```
001011100101011100000101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 05 --> A3 (PTN[7:1] = 05)
001001100101011100000101 -
001000100101011100000101
001001100101011100000101
001100100101011100000101
001011100101011100000101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 05 --> A3 (PTN[7:1] = 05)
001001100101011100000101 -
001000100101011100000101
001001100101011100000101
001100100101011100000101
001011100101011100000101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 05 --> A3 (PTN[7:1] = 05)
001001100101011100000101 -
001000100101011100000101
001001100101011100000101
001100100101011100000101
001011100101011100000101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 06 --> A3 (PTN[7:1] = 06)
001000100101011100000110 -
001001100101011100000110
001000100101011100000110
001101100101011100000110
001010100101011100000110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 06 --> A3 (PTN[7:1] = 06)
001000100101011100000110 -
001001100101011100000110
001000100101011100000110
001101100101011100000110
001010100101011100000110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 06 --> A3 (PTN[7:1] = 06)  
001000100101011100000110 -  
001001100101011100000110  
001000100101011100000110  
001101100101011100000110  
001010100101011100000110 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 06 --> A3 (PTN[7:1] = 06)
001000100101011100000110 -
001001100101011100000110
001000100101011100000110
001101100101011100000110
001010100101011100000110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 06 --> A3 (PTN[7:1] = 06)
001000100101011100000110 -
001001100101011100000110
001000100101011100000110
001101100101011100000110
001010100101011100000110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 06 --> A3 (PTN[7:1] = 06)
001000100101011100000110 -
001001100101011100000110
001000100101011100000110
001101100101011100000110
001010100101011100000110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
```

001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 06 --> A3 (PTN[7:1] = 06)
001000100101011100000110 -
001001100101011100000110
001000100101011100000110
001101100101011100000110
001010100101011100000110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000

```
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 07 --> A3 (PTN[7:1] = 07)
001001100101011100000111 -
001000100101011100000111
001001100101011100000111
001100100101011100000111
```

```
001011100101011100000111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 07 --> A3 (PTN[7:1] = 07)
001001100101011100000111 -
001000100101011100000111
001001100101011100000111
001100100101011100000111
001011100101011100000111 -
```

```
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 07 --> A3 (PTN[7:1] = 07)
001001100101011100000111 -
001000100101011100000111
001001100101011100000111
001100100101011100000111
001011100101011100000111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 07 --> A3 (PTN[7:1] = 07)
001001100101011100000111 -
001000100101011100000111
001001100101011100000111
001100100101011100000111
001011100101011100000111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 07 --> A3 (PTN[7:1] = 07)
001001100101011100000111 -
001000100101011100000111
001001100101011100000111
001100100101011100000111
001011100101011100000111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 07 --> A3 (PTN[7:1] = 07)
001001100101011100000111 -
001000100101011100000111
001001100101011100000111
001100100101011100000111
001011100101011100000111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 07 --> A3 (PTN[7:1] = 07)
001001100101011100000111 -
001000100101011100000111
001001100101011100000111
001100100101011100000111
001011100101011100000111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 08 --> A3 (PTN[7:1] = 08)
001000100101011100001000 -
001001100101011100001000
001000100101011100001000
001101100101011100001000
001010100101011100001000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 08 --> A3 (PTN[7:1] = 08)
001000100101011100001000 -
001001100101011100001000
001000100101011100001000
001101100101011100001000
001010100101011100001000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 08 --> A3 (PTN[7:1] = 08)
001000100101011100001000 -
001001100101011100001000
001000100101011100001000
001101100101011100001000
001010100101011100001000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 08 --> A3 (PTN[7:1] = 08)
001000100101011100001000 -
001001100101011100001000
001000100101011100001000
001101100101011100001000
001010100101011100001000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
```

001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 08 --> A3 (PTN[7:1] = 08)
001000100101011100001000 -
001001100101011100001000
001000100101011100001000
001101100101011100001000
001010100101011100001000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000


```
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 08 --> A3 (PTN[7:1] = 08)
001000100101011100001000 -
001001100101011100001000
001000100101011100001000
001101100101011100001000
001010100101011100001000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 08 --> A3 (PTN[7:1] = 08)
```

```
001000100101011100001000 -
001001100101011100001000
001000100101011100001000
001101100101011100001000
001010100101011100001000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 09 --> A3 (PTN[7:1] = 09)
001001100101011100001001 -
001000100101011100001001
001001100101011100001001
001100100101011100001001
001011100101011100001001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 09 --> A3 (PTN[7:1] = 09)
001001100101011100001001 -
001000100101011100001001
001001100101011100001001
001100100101011100001001
001011100101011100001001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 09 --> A3 (PTN[7:1] = 09)
001001100101011100001001 -
001000100101011100001001
001001100101011100001001
001100100101011100001001
001011100101011100001001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 09 --> A3 (PTN[7:1] = 09)
001001100101011100001001 -
001000100101011100001001
001001100101011100001001
001100100101011100001001
001011100101011100001001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 09 --> A3 (PTN[7:1] = 09)
001001100101011100001001 -
001000100101011100001001
001001100101011100001001
001100100101011100001001
001011100101011100001001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 09 --> A3 (PTN[7:1] = 09)
001001100101011100001001 -
001000100101011100001001
001001100101011100001001
001100100101011100001001
001011100101011100001001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 09 --> A3 (PTN[7:1] = 09)
001001100101011100001001 -
001000100101011100001001
001001100101011100001001
001100100101011100001001
001011100101011100001001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0A --> A3 (PTN[7:1] = 0A)
001000100101011100001010 -
001001100101011100001010
001000100101011100001010
001101100101011100001010
001010100101011100001010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0A --> A3 (PTN[7:1] = 0A)
001000100101011100001010 -
001001100101011100001010
001000100101011100001010
001101100101011100001010
001010100101011100001010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 0A --> A3 (PTN[7:1] = 0A)  
001000100101011100001010 -  
001001100101011100001010  
001000100101011100001010  
001101100101011100001010  
001010100101011100001010 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -
```

```
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0A --> A3 (PTN[7:1] = 0A)
001000100101011100001010 -
001001100101011100001010
001000100101011100001010
001101100101011100001010
001010100101011100001010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
```

```
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0A --> A3 (PTN[7:1] = 0A)
001000100101011100001010 -
```

```
001001100101011100001010
001000100101011100001010
001101100101011100001010
001010100101011100001010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0A --> A3 (PTN[7:1] = 0A)
001000100101011100001010 -
001001100101011100001010
```



```
001000100101011100001010
001101100101011100001010
001010100101011100001010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0A --> A3 (PTN[7:1] = 0A)
001000100101011100001010 -
001001100101011100001010
001000100101011100001010
001101100101011100001010
001010100101011100001010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 0B --> A3 (PTN[7:1] = 0B)  
001001100101011100001011 -  
001000100101011100001011  
001001100101011100001011  
001100100101011100001011  
001011100101011100001011 -  
- 18 --> A4 (y = 1, R = 1)  
001000100101011110011000 -  
001001100101011110011000  
001000100101011110011000  
001101110101011110011000  
001010110101011110011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0B --> A3 (PTN[7:1] = 0B)
001001100101011100001011 -
001000100101011100001011
001001100101011100001011
001100100101011100001011
001011100101011100001011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0B --> A3 (PTN[7:1] = 0B)
001001100101011100001011 -
001000100101011100001011
001001100101011100001011
001100100101011100001011
001011100101011100001011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
```

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0B --> A3 (PTN[7:1] = 0B)
001001100101011100001011 -
001000100101011100001011
001001100101011100001011
001100100101011100001011
001011100101011100001011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0B --> A3 (PTN[7:1] = 0B)
001001100101011100001011 -
001000100101011100001011
001001100101011100001011
001100100101011100001011
001011100101011100001011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0B --> A3 (PTN[7:1] = 0B)
001001100101011100001011 -
001000100101011100001011
001001100101011100001011
001100100101011100001011
001011100101011100001011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 0B --> A3 (PTN[7:1] = 0B)  
001001100101011100001011 -  
001000100101011100001011  
001001100101011100001011  
001100100101011100001011  
001011100101011100001011 -  
- 78 --> A4 (y = 7, R = 1)  
001000100101011111111000 -  
001001100101011111111000  
001000100101011111111000  
001101110101011111111000  
001010110101011111111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0C --> A3 (PTN[7:1] = 0C)
001000100101011100001100 -
001001100101011100001100
001000100101011100001100
001101100101011100001100
001010100101011100001100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
```

001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0C --> A3 (PTN[7:1] = 0C)
001000100101011100001100 -
001001100101011100001100
001000100101011100001100
001101100101011100001100
001010100101011100001100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
00100010010101110101000 -

```
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0C --> A3 (PTN[7:1] = 0C)
001000100101011100001100 -
001001100101011100001100
```

```
001000100101011100001100
001101100101011100001100
001010100101011100001100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0C --> A3 (PTN[7:1] = 0C)
001000100101011100001100 -
001001100101011100001100
001000100101011100001100
```

```
001101100101011100001100
001010100101011100001100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 0C --> A3 (PTN[7:1] = 0C)  
001000100101011100001100 -  
001001100101011100001100  
001000100101011100001100  
001101100101011100001100  
001010100101011100001100 -  
- 58 --> A4 (y = 5, R = 1)  
001001100101011111011000 -  
001000100101011111011000  
001001100101011111011000  
001100110101011111011000  
001011110101011111011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0C --> A3 (PTN[7:1] = 0C)
001000100101011100001100 -
001001100101011100001100
001000100101011100001100
001101100101011100001100
001010100101011100001100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0C --> A3 (PTN[7:1] = 0C)
001000100101011100001100 -
001001100101011100001100
001000100101011100001100
001101100101011100001100
001010100101011100001100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
```

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0D --> A3 (PTN[7:1] = 0D)
001001100101011100001101 -
001000100101011100001101
001001100101011100001101
001100100101011100001101
001011100101011100001101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0D --> A3 (PTN[7:1] = 0D)
001001100101011100001101 -
001000100101011100001101
001001100101011100001101
001100100101011100001101
001011100101011100001101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0D --> A3 (PTN[7:1] = 0D)
001001100101011100001101 -
001000100101011100001101
001001100101011100001101
001100100101011100001101
001011100101011100001101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 0D --> A3 (PTN[7:1] = 0D)  
001001100101011100001101 -  
001000100101011100001101  
001001100101011100001101  
001100100101011100001101  
001011100101011100001101 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001001100101011111001000 -  
001000100101011111001000  
001001100101011111001000  
001100110101011111001000  
001011110101011111001000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0D --> A3 (PTN[7:1] = 0D)
001001100101011100001101 -
001000100101011100001101
001001100101011100001101
001100100101011100001101
001011100101011100001101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0D --> A3 (PTN[7:1] = 0D)
001001100101011100001101 -
001000100101011100001101
001001100101011100001101
001100100101011100001101
001011100101011100001101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -

001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0D --> A3 (PTN[7:1] = 0D)
001001100101011100001101 -
001000100101011100001101
001001100101011100001101
001100100101011100001101
001011100101011100001101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000


```
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0E --> A3 (PTN[7:1] = 0E)
001000100101011100001110 -
001001100101011100001110
001000100101011100001110
```

```
001101100101011100001110
001010100101011100001110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0E --> A3 (PTN[7:1] = 0E)
001000100101011100001110 -
001001100101011100001110
001000100101011100001110
001101100101011100001110
```

```
001010100101011100001110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0E --> A3 (PTN[7:1] = 0E)
001000100101011100001110 -
001001100101011100001110
001000100101011100001110
001101100101011100001110
001010100101011100001110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0E --> A3 (PTN[7:1] = 0E)
001000100101011100001110 -
001001100101011100001110
001000100101011100001110
001101100101011100001110
001010100101011100001110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0E --> A3 (PTN[7:1] = 0E)
001000100101011100001110 -
001001100101011100001110
001000100101011100001110
001101100101011100001110
001010100101011100001110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0E --> A3 (PTN[7:1] = 0E)
001000100101011100001110 -
001001100101011100001110
001000100101011100001110
001101100101011100001110
001010100101011100001110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 0E --> A3 (PTN[7:1] = 0E)
001000100101011100001110 -
001001100101011100001110
001000100101011100001110
001101100101011100001110
001010100101011100001110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 0F --> A3 (PTN[7:1] = 0F)  
001001100101011100001111 -  
001000100101011100001111  
001001100101011100001111  
001100100101011100001111  
001011100101011100001111 -  
- 18 --> A4 (y = 1, R = 1)  
001000100101011110011000 -  
001001100101011110011000  
001000100101011110011000  
001101110101011110011000  
001010110101011110011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0F --> A3 (PTN[7:1] = 0F)
001001100101011100001111 -
001000100101011100001111
001001100101011100001111
001100100101011100001111
001011100101011100001111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0F --> A3 (PTN[7:1] = 0F)
001001100101011100001111 -
001000100101011100001111
001001100101011100001111
001100100101011100001111
001011100101011100001111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0F --> A3 (PTN[7:1] = 0F)
001001100101011100001111 -
001000100101011100001111
001001100101011100001111
001100100101011100001111
001011100101011100001111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100110010101111001000 -
00100010010101111001000
00100110010101111001000
00110011010101111001000
00101111010101111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
```

```
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0F --> A3 (PTN[7:1] = 0F)
001001100101011100001111 -
001000100101011100001111
001001100101011100001111
001100100101011100001111
001011100101011100001111 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
```

```
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 0F --> A3 (PTN[7:1] = 0F)
001001100101011100001111 -
001000100101011100001111
001001100101011100001111
001100100101011100001111
001011100101011100001111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- 0F --> A3 (PTN[7:1] = 0F)
001001100101011100001111 -
001000100101011100001111
001001100101011100001111
001100100101011100001111
001011100101011100001111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 10 --> A3 (PTN[7:1] = 10)
001000100101011100010000 -
001001100101011100010000
001000100101011100010000
001101100101011100010000
001010100101011100010000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 10 --> A3 (PTN[7:1] = 10)
001000100101011100010000 -
001001100101011100010000
001000100101011100010000
001101100101011100010000
001010100101011100010000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 10 --> A3 (PTN[7:1] = 10)
001000100101011100010000 -
001001100101011100010000
001000100101011100010000
001101100101011100010000
001010100101011100010000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 10 --> A3 (PTN[7:1] = 10)
001000100101011100010000 -
001001100101011100010000
001000100101011100010000
001101100101011100010000
001010100101011100010000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 10 --> A3 (PTN[7:1] = 10)  
001000100101011100010000 -  
001001100101011100010000  
001000100101011100010000  
001101100101011100010000  
001010100101011100010000 -  
- 58 --> A4 (y = 5, R = 1)  
00100110010101111011000 -  
00100010010101111011000  
00100110010101111011000  
00110011010101111011000  
00101111010101111011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 10 --> A3 (PTN[7:1] = 10)
001000100101011100010000 -
001001100101011100010000
001000100101011100010000
001101100101011100010000
001010100101011100010000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 10 --> A3 (PTN[7:1] = 10)
001000100101011100010000 -
001001100101011100010000
001000100101011100010000
001101100101011100010000
001010100101011100010000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 11 --> A3 (PTN[7:1] = 11)
001001100101011100010001 -
001000100101011100010001
001001100101011100010001
001100100101011100010001
001011100101011100010001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 11 --> A3 (PTN[7:1] = 11)
001001100101011100010001 -
001000100101011100010001
001001100101011100010001
001100100101011100010001
001011100101011100010001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
```

001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 11 --> A3 (PTN[7:1] = 11)
001001100101011100010001 -
001000100101011100010001
001001100101011100010001
001100100101011100010001
001011100101011100010001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000

```
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 11 --> A3 (PTN[7:1] = 11)
001001100101011100010001 -
001000100101011100010001
001001100101011100010001
001100100101011100010001
001011100101011100010001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- 48 --> A4 (y = 4, R = 1)
0010011001010111111001000 -
0010001001010111111001000
0010011001010111111001000
0011001101010111111001000
0010111101010111111001000 -
- NOP (Load 11 bits pattern)
00100011010100000000000000 -
00100111010100000000000000
00100011010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (1)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (2)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (3)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (4)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (5)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (6)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (7)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (8)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- 11 --> A3 (PTN[7:1] = 11)
```

```
001001100101011100010001 -
001000100101011100010001
001001100101011100010001
001100100101011100010001
001011100101011100010001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 11 --> A3 (PTN[7:1] = 11)
001001100101011100010001 -
```

```
001000100101011100010001
001001100101011100010001
001100100101011100010001
001011100101011100010001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 11 --> A3 (PTN[7:1] = 11)
001001100101011100010001 -
001000100101011100010001
001001100101011100010001
001100100101011100010001
001011100101011100010001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 12 --> A3 (PTN[7:1] = 12)
001000100101011100010010 -
001001100101011100010010
001000100101011100010010
001101100101011100010010
001010100101011100010010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 12 --> A3 (PTN[7:1] = 12)  
001000100101011100010010 -  
001001100101011100010010  
001000100101011100010010  
001101100101011100010010  
001010100101011100010010 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001000100101011110101000 -  
001001100101011110101000  
001000100101011110101000  
001101110101011110101000  
001010110101011110101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 12 --> A3 (PTN[7:1] = 12)
001000100101011100010010 -
001001100101011100010010
001000100101011100010010
001101100101011100010010
001010100101011100010010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 12 --> A3 (PTN[7:1] = 12)
001000100101011100010010 -
001001100101011100010010
001000100101011100010010
001101100101011100010010
001010100101011100010010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 12 --> A3 (PTN[7:1] = 12)
001000100101011100010010 -
001001100101011100010010
001000100101011100010010
001101100101011100010010
001010100101011100010010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 12 --> A3 (PTN[7:1] = 12)
001000100101011100010010 -
001001100101011100010010
001000100101011100010010
001101100101011100010010
001010100101011100010010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 12 --> A3 (PTN[7:1] = 12)
001000100101011100010010 -
001001100101011100010010
001000100101011100010010
001101100101011100010010
001010100101011100010010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 13 --> A3 (PTN[7:1] = 13)
001001100101011100010011 -
001000100101011100010011
001001100101011100010011
001100100101011100010011
001011100101011100010011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -

```
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 13 --> A3 (PTN[7:1] = 13)
001001100101011100010011 -
001000100101011100010011
001001100101011100010011
001100100101011100010011
001011100101011100010011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
```



```
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 13 --> A3 (PTN[7:1] = 13)
001001100101011100010011 -
```

```
001000100101011100010011
001001100101011100010011
001100100101011100010011
001011100101011100010011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 13 --> A3 (PTN[7:1] = 13)
001001100101011100010011 -
001000100101011100010011
```

```
001001100101011100010011
001100100101011100010011
001011100101011100010011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 13 --> A3 (PTN[7:1] = 13)
001001100101011100010011 -
001000100101011100010011
001001100101011100010011
001100100101011100010011
001011100101011100010011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 13 --> A3 (PTN[7:1] = 13)  
001001100101011100010011 -  
001000100101011100010011  
001001100101011100010011  
001100100101011100010011  
001011100101011100010011 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001001100101011111101000 -  
001000100101011111101000  
001001100101011111101000  
001100110101011111101000  
001011110101011111101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 13 --> A3 (PTN[7:1] = 13)
001001100101011100010011 -
001000100101011100010011
001001100101011100010011
001100100101011100010011
001011100101011100010011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 14 --> A3 (PTN[7:1] = 14)
001000100101011100010100 -
001001100101011100010100
001000100101011100010100
001101100101011100010100
001010100101011100010100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 14 --> A3 (PTN[7:1] = 14)
001000100101011100010100 -
001001100101011100010100
001000100101011100010100
001101100101011100010100
001010100101011100010100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 14 --> A3 (PTN[7:1] = 14)
001000100101011100010100 -
001001100101011100010100
001000100101011100010100
001101100101011100010100
001010100101011100010100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 14 --> A3 (PTN[7:1] = 14)
001000100101011100010100 -
001001100101011100010100
001000100101011100010100
001101100101011100010100
001010100101011100010100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 14 --> A3 (PTN[7:1] = 14)  
001000100101011100010100 -  
001001100101011100010100  
001000100101011100010100  
001101100101011100010100  
001010100101011100010100 -  
- 58 --> A4 (y = 5, R = 1)  
001001100101011111011000 -  
001000100101011111011000  
001001100101011111011000  
001100110101011111011000  
001011110101011111011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 14 --> A3 (PTN[7:1] = 14)
001000100101011100010100 -
001001100101011100010100
001000100101011100010100
001101100101011100010100
001010100101011100010100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)

001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 14 --> A3 (PTN[7:1] = 14)
001000100101011100010100 -
001001100101011100010100
001000100101011100010100
001101100101011100010100
001010100101011100010100 -
- 78 --> A4 (y = 7, R = 1)
00100110010101111111000 -

```
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 15 --> A3 (PTN[7:1] = 15)
001001100101011100010101 -
001000100101011100010101
```

```
0010011001010111100010101
0011001001010111100010101
0010111001010111100010101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 15 --> A3 (PTN[7:1] = 15)
001001100101011100010101 -
001000100101011100010101
001001100101011100010101
```

```
001100100101011100010101
001011100101011100010101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 15 --> A3 (PTN[7:1] = 15)  
001001100101011100010101 -  
001000100101011100010101  
001001100101011100010101  
001100100101011100010101  
001011100101011100010101 -  
- 38 --> A4 (y = 3, R = 1)  
001000100101011110111000 -  
001001100101011110111000  
001000100101011110111000  
001101110101011110111000  
001010110101011110111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 15 --> A3 (PTN[7:1] = 15)
001001100101011100010101 -
001000100101011100010101
001001100101011100010101
001100100101011100010101
001011100101011100010101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 15 --> A3 (PTN[7:1] = 15)
001001100101011100010101 -
001000100101011100010101
001001100101011100010101
001100100101011100010101
001011100101011100010101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 15 --> A3 (PTN[7:1] = 15)
001001100101011100010101 -
001000100101011100010101
001001100101011100010101
001100100101011100010101
001011100101011100010101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
```

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 15 --> A3 (PTN[7:1] = 15)
001001100101011100010101 -
001000100101011100010101
001001100101011100010101
001100100101011100010101
001011100101011100010101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 16 --> A3 (PTN[7:1] = 16)
001000100101011100010110 -
001001100101011100010110
001000100101011100010110
001101100101011100010110
001010100101011100010110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 16 --> A3 (PTN[7:1] = 16)  
001000100101011100010110 -  
001001100101011100010110  
001000100101011100010110  
001101100101011100010110  
001010100101011100010110 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001000100101011110101000 -  
001001100101011110101000  
001000100101011110101000  
001101110101011110101000  
001010110101011110101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 16 --> A3 (PTN[7:1] = 16)
001000100101011100010110 -
001001100101011100010110
001000100101011100010110
001101100101011100010110
001010100101011100010110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 16 --> A3 (PTN[7:1] = 16)
001000100101011100010110 -
001001100101011100010110
001000100101011100010110
001101100101011100010110
001010100101011100010110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
```

001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 16 --> A3 (PTN[7:1] = 16)
001000100101011100010110 -
001001100101011100010110
001000100101011100010110
001101100101011100010110
001010100101011100010110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000

```
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 16 --> A3 (PTN[7:1] = 16)
001000100101011100010110 -
001001100101011100010110
001000100101011100010110
001101100101011100010110
001010100101011100010110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- 16 --> A3 (PTN[7:1] = 16)  
001000100101011100010110 -  
001001100101011100010110  
001000100101011100010110  
001101100101011100010110  
001010100101011100010110 -  
- 78 --> A4 (y = 7, R = 1)  
001001100101011111111000 -  
001000100101011111111000  
001001100101011111111000  
001100110101011111111000  
001011110101011111111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 17 --> A3 (PTN[7:1] = 17)
001001100101011100010111 -
001000100101011100010111
001001100101011100010111
001100100101011100010111
001011100101011100010111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 17 --> A3 (PTN[7:1] = 17)
001001100101011100010111 -
001000100101011100010111
001001100101011100010111
001100100101011100010111
001011100101011100010111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 17 --> A3 (PTN[7:1] = 17)
001001100101011100010111 -
001000100101011100010111
001001100101011100010111
001100100101011100010111
001011100101011100010111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
```



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001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 17 --> A3 (PTN[7:1] = 17)
001001100101011100010111 -
001000100101011100010111
001001100101011100010111
001100100101011100010111
001011100101011100010111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 17 --> A3 (PTN[7:1] = 17)
001001100101011100010111 -
001000100101011100010111
001001100101011100010111
001100100101011100010111
001011100101011100010111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 17 --> A3 (PTN[7:1] = 17)  
001001100101011100010111 -  
001000100101011100010111  
001001100101011100010111  
001100100101011100010111  
001011100101011100010111 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001001100101011111101000 -  
001000100101011111101000  
001001100101011111101000  
001100110101011111101000  
001011110101011111101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 17 --> A3 (PTN[7:1] = 17)
001001100101011100010111 -
001000100101011100010111
001001100101011100010111
001100100101011100010111
001011100101011100010111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 18 --> A3 (PTN[7:1] = 18)
001000100101011100011000 -
001001100101011100011000
001000100101011100011000
001101100101011100011000
001010100101011100011000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 18 --> A3 (PTN[7:1] = 18)
001000100101011100011000 -
001001100101011100011000
001000100101011100011000
001101100101011100011000
001010100101011100011000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
00100010010101110101000 -
00100110010101110101000
00100010010101110101000
00110111010101110101000
00101011010101110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
```

001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 18 --> A3 (PTN[7:1] = 18)
001000100101011100011000 -
001001100101011100011000
001000100101011100011000
001101100101011100011000
001010100101011100011000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000

```
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 18 --> A3 (PTN[7:1] = 18)
001000100101011100011000 -
001001100101011100011000
001000100101011100011000
001101100101011100011000
001010100101011100011000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001000100101011111001000 -  
001001100101011111001000  
001000100101011111001000  
001101110101011111001000  
001010110101011111001000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- 18 --> A3 (PTN[7:1] = 18)
001000100101011100011000 -
001001100101011100011000
001000100101011100011000
001101100101011100011000
001010100101011100011000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 18 --> A3 (PTN[7:1] = 18)
```

001000100101011100011000 -
001001100101011100011000
001000100101011100011000
001101100101011100011000
001010100101011100011000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 18 --> A3 (PTN[7:1] = 18)
001000100101011100011000 -
001001100101011100011000
001000100101011100011000
001101100101011100011000
001010100101011100011000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 19 --> A3 (PTN[7:1] = 19)
001001100101011100011001 -
001000100101011100011001
001001100101011100011001
001100100101011100011001
001011100101011100011001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 19 --> A3 (PTN[7:1] = 19)
001001100101011100011001 -
001000100101011100011001
001001100101011100011001
001100100101011100011001
001011100101011100011001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 19 --> A3 (PTN[7:1] = 19)  
001001100101011100011001 -  
001000100101011100011001  
001001100101011100011001  
001100100101011100011001  
001011100101011100011001 -  
- 38 --> A4 (y = 3, R = 1)  
001000100101011110111000 -  
001001100101011110111000  
001000100101011110111000  
001101110101011110111000  
001010110101011110111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 19 --> A3 (PTN[7:1] = 19)
001001100101011100011001 -
001000100101011100011001
001001100101011100011001
001100100101011100011001
001011100101011100011001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 19 --> A3 (PTN[7:1] = 19)
001001100101011100011001 -
001000100101011100011001
001001100101011100011001
001100100101011100011001
001011100101011100011001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 19 --> A3 (PTN[7:1] = 19)
001001100101011100011001 -
001000100101011100011001
001001100101011100011001
001100100101011100011001
001011100101011100011001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 19 --> A3 (PTN[7:1] = 19)
001001100101011100011001 -
001000100101011100011001
001001100101011100011001
001100100101011100011001
001011100101011100011001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
```

001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1A --> A3 (PTN[7:1] = 1A)
001000100101011100011010 -
001001100101011100011010
001000100101011100011010
001101100101011100011010
001010100101011100011010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000

```
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1A --> A3 (PTN[7:1] = 1A)
001000100101011100011010 -
001001100101011100011010
001000100101011100011010
001101100101011100011010
001010100101011100011010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1A --> A3 (PTN[7:1] = 1A)
```

```
001000100101011100011010 -
001001100101011100011010
001000100101011100011010
001101100101011100011010
001010100101011100011010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1A --> A3 (PTN[7:1] = 1A)
001000100101011100011010 -
```

```
0010011001010111100011010
0010001001010111100011010
0011011001010111100011010
0010101001010111100011010 -
- NOP (9)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
00100111010100000000000000 -
00100011010100000000000000
00100111010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (1)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (2)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (3)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (4)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (5)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (6)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (7)
00100010010100000000000000 -
00100110010100000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1A --> A3 (PTN[7:1] = 1A)
001000100101011100011010 -
001001100101011100011010
001000100101011100011010
001101100101011100011010
001010100101011100011010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1A --> A3 (PTN[7:1] = 1A)
001000100101011100011010 -
001001100101011100011010
001000100101011100011010
001101100101011100011010
001010100101011100011010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 1A --> A3 (PTN[7:1] = 1A)  
001000100101011100011010 -  
001001100101011100011010  
001000100101011100011010  
001101100101011100011010  
001010100101011100011010 -  
- 78 --> A4 (y = 7, R = 1)  
001001100101011111111000 -  
001000100101011111111000  
001001100101011111111000  
001100110101011111111000  
001011110101011111111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1B --> A3 (PTN[7:1] = 1B)
001001100101011100011011 -
001000100101011100011011
001001100101011100011011
001100100101011100011011
001011100101011100011011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1B --> A3 (PTN[7:1] = 1B)
001001100101011100011011 -
001000100101011100011011
001001100101011100011011
001100100101011100011011
001011100101011100011011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1B --> A3 (PTN[7:1] = 1B)
001001100101011100011011 -
001000100101011100011011
001001100101011100011011
001100100101011100011011
001011100101011100011011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1B --> A3 (PTN[7:1] = 1B)
001001100101011100011011 -
001000100101011100011011
001001100101011100011011
001100100101011100011011
001011100101011100011011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1B --> A3 (PTN[7:1] = 1B)
001001100101011100011011 -
001000100101011100011011
001001100101011100011011
001100100101011100011011
001011100101011100011011 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
00110111010101111011000
00101011010101111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
```


001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1B --> A3 (PTN[7:1] = 1B)
001001100101011100011011 -
001000100101011100011011
001001100101011100011011
001100100101011100011011
001011100101011100011011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -

```

- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1B --> A3 (PTN[7:1] = 1B)
001001100101011100011011 -
001000100101011100011011
001001100101011100011011
001100100101011100011011
001011100101011100011011 -
- 78 --> A4 (y = 7, R = 1)

```

```
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1C --> A3 (PTN[7:1] = 1C)
001000100101011100011100 -
```

```
001001100101011100011100
001000100101011100011100
001101100101011100011100
001010100101011100011100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1C --> A3 (PTN[7:1] = 1C)
001000100101011100011100 -
001001100101011100011100
```

```
001000100101011100011100
001101100101011100011100
001010100101011100011100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1C --> A3 (PTN[7:1] = 1C)
001000100101011100011100 -
001001100101011100011100
001000100101011100011100
001101100101011100011100
001010100101011100011100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1C --> A3 (PTN[7:1] = 1C)
001000100101011100011100 -
001001100101011100011100
001000100101011100011100
001101100101011100011100
001010100101011100011100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1C --> A3 (PTN[7:1] = 1C)
001000100101011100011100 -
001001100101011100011100
001000100101011100011100
001101100101011100011100
001010100101011100011100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1C --> A3 (PTN[7:1] = 1C)
001000100101011100011100 -
001001100101011100011100
001000100101011100011100
001101100101011100011100
001010100101011100011100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1C --> A3 (PTN[7:1] = 1C)
001000100101011100011100 -
001001100101011100011100
001000100101011100011100
001101100101011100011100
001010100101011100011100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1D --> A3 (PTN[7:1] = 1D)
001001100101011100011101 -
001000100101011100011101
001001100101011100011101
001100100101011100011101
001011100101011100011101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1D --> A3 (PTN[7:1] = 1D)
001001100101011100011101 -
001000100101011100011101
001001100101011100011101
001100100101011100011101
001011100101011100011101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 1D --> A3 (PTN[7:1] = 1D)  
001001100101011100011101 -  
001000100101011100011101  
001001100101011100011101  
001100100101011100011101  
001011100101011100011101 -  
- 38 --> A4 (y = 3, R = 1)  
001000100101011110111000 -  
001001100101011110111000  
001000100101011110111000  
001101110101011110111000  
001010110101011110111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1D --> A3 (PTN[7:1] = 1D)
001001100101011100011101 -
001000100101011100011101
001001100101011100011101
001100100101011100011101
001011100101011100011101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
```

001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1D --> A3 (PTN[7:1] = 1D)
001001100101011100011101 -
001000100101011100011101
001001100101011100011101
001100100101011100011101
001011100101011100011101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -

```
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1D --> A3 (PTN[7:1] = 1D)
001001100101011100011101 -
001000100101011100011101
001001100101011100011101
001100100101011100011101
001011100101011100011101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 1D --> A3 (PTN[7:1] = 1D)
001001100101011100011101 -
001000100101011100011101
001001100101011100011101
001100100101011100011101
001011100101011100011101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 1E --> A3 (PTN[7:1] = 1E)  
001000100101011100011110 -  
001001100101011100011110  
001000100101011100011110  
001101100101011100011110  
001010100101011100011110 -  
- 18 --> A4 (y = 1, R = 1)  
001001100101011110011000 -  
001000100101011110011000  
001001100101011110011000  
001100110101011110011000  
001011110101011110011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1E --> A3 (PTN[7:1] = 1E)
001000100101011100011110 -
001001100101011100011110
001000100101011100011110
001101100101011100011110
001010100101011100011110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1E --> A3 (PTN[7:1] = 1E)
001000100101011100011110 -
001001100101011100011110
001000100101011100011110
001101100101011100011110
001010100101011100011110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1E --> A3 (PTN[7:1] = 1E)
001000100101011100011110 -
001001100101011100011110
001000100101011100011110
001101100101011100011110
001010100101011100011110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1E --> A3 (PTN[7:1] = 1E)
001000100101011100011110 -
001001100101011100011110
001000100101011100011110
001101100101011100011110
001010100101011100011110 -
- 58 --> A4 (y = 5, R = 1)
00100110010101111011000 -
00100010010101111011000
00100110010101111011000
00110011010101111011000
00101111010101111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 1E --> A3 (PTN[7:1] = 1E)
001000100101011100011110 -
001001100101011100011110
001000100101011100011110
001101100101011100011110
001010100101011100011110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 1E --> A3 (PTN[7:1] = 1E)  
001000100101011100011110 -  
001001100101011100011110  
001000100101011100011110  
001101100101011100011110  
001010100101011100011110 -  
- 78 --> A4 (y = 7, R = 1)  
001001100101011111111000 -  
001000100101011111111000  
001001100101011111111000  
001100110101011111111000  
001011110101011111111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1F --> A3 (PTN[7:1] = 1F)
001001100101011100011111 -
001000100101011100011111
001001100101011100011111
001100100101011100011111
001011100101011100011111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1F --> A3 (PTN[7:1] = 1F)
001001100101011100011111 -
001000100101011100011111
001001100101011100011111
001100100101011100011111
001011100101011100011111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -

001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1F --> A3 (PTN[7:1] = 1F)
001001100101011100011111 -
001000100101011100011111
001001100101011100011111
001100100101011100011111
001011100101011100011111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000

```
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1F --> A3 (PTN[7:1] = 1F)
001001100101011100011111 -
001000100101011100011111
001001100101011100011111
001100100101011100011111
001011100101011100011111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- 1F --> A3 (PTN[7:1] = 1F)  
001001100101011100011111 -  
001000100101011100011111  
001001100101011100011111  
001100100101011100011111  
001011100101011100011111 -  
- 58 --> A4 (y = 5, R = 1)  
001000100101011111011000 -  
001001100101011111011000  
001000100101011111011000  
001101110101011111011000  
001010110101011111011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- 1F --> A3 (PTN[7:1] = 1F)
001001100101011100011111 -
001000100101011100011111
001001100101011100011111
001100100101011100011111
001011100101011100011111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 1F --> A3 (PTN[7:1] = 1F)
001001100101011100011111 -
001000100101011100011111
001001100101011100011111
001100100101011100011111
001011100101011100011111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 20 --> A3 (PTN[7:1] = 20)
001000100101011100100000 -
001001100101011100100000
001000100101011100100000
001101100101011100100000
001010100101011100100000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 20 --> A3 (PTN[7:1] = 20)
001000100101011100100000 -
001001100101011100100000
001000100101011100100000
001101100101011100100000
001010100101011100100000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 20 --> A3 (PTN[7:1] = 20)
001000100101011100100000 -
001001100101011100100000
001000100101011100100000
001101100101011100100000
001010100101011100100000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 20 --> A3 (PTN[7:1] = 20)  
001000100101011100100000 -  
001001100101011100100000  
001000100101011100100000  
001101100101011100100000  
001010100101011100100000 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001000100101011111001000 -  
001001100101011111001000  
001000100101011111001000  
001101110101011111001000  
001010110101011111001000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 20 --> A3 (PTN[7:1] = 20)
001000100101011100100000 -
001001100101011100100000
001000100101011100100000
001101100101011100100000
001010100101011100100000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 20 --> A3 (PTN[7:1] = 20)
001000100101011100100000 -
001001100101011100100000
001000100101011100100000
001101100101011100100000
001010100101011100100000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 20 --> A3 (PTN[7:1] = 20)
001000100101011100100000 -
001001100101011100100000
001000100101011100100000
001101100101011100100000
001010100101011100100000 -
- 78 --> A4 (y = 7, R = 1)
00100110010101111111000 -
00100010010101111111000
00100110010101111111000
00110011010101111111000
00101111010101111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
```


001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 21 --> A3 (PTN[7:1] = 21)
001001100101011100100001 -
001000100101011100100001
001001100101011100100001
001100100101011100100001
001011100101011100100001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000

001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 21 --> A3 (PTN[7:1] = 21)
001001100101011100100001 -
001000100101011100100001
001001100101011100100001
001100100101011100100001
001011100101011100100001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000

```
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- 21 --> A3 (PTN[7:1] = 21)
001001100101011100100001 -
001000100101011100100001
001001100101011100100001
001100100101011100100001
001011100101011100100001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 21 --> A3 (PTN[7:1] = 21)
```

001001100101011100100001 -
001000100101011100100001
001001100101011100100001
001100100101011100100001
001011100101011100100001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 21 --> A3 (PTN[7:1] = 21)
001001100101011100100001 -
001000100101011100100001
001001100101011100100001
001100100101011100100001
001011100101011100100001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 21 --> A3 (PTN[7:1] = 21)
001001100101011100100001 -
001000100101011100100001
001001100101011100100001
001100100101011100100001
001011100101011100100001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 21 --> A3 (PTN[7:1] = 21)
001001100101011100100001 -
001000100101011100100001
001001100101011100100001
001100100101011100100001
001011100101011100100001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 22 --> A3 (PTN[7:1] = 22)  
001000100101011100100010 -  
001001100101011100100010  
001000100101011100100010  
001101100101011100100010  
001010100101011100100010 -  
- 18 --> A4 (y = 1, R = 1)  
001001100101011110011000 -  
001000100101011110011000  
001001100101011110011000  
001100110101011110011000  
001011110101011110011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 22 --> A3 (PTN[7:1] = 22)
001000100101011100100010 -
001001100101011100100010
001000100101011100100010
001101100101011100100010
001010100101011100100010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 22 --> A3 (PTN[7:1] = 22)
001000100101011100100010 -
001001100101011100100010
001000100101011100100010
001101100101011100100010
001010100101011100100010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 22 --> A3 (PTN[7:1] = 22)
001000100101011100100010 -
001001100101011100100010
001000100101011100100010
001101100101011100100010
001010100101011100100010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 22 --> A3 (PTN[7:1] = 22)
001000100101011100100010 -
001001100101011100100010
001000100101011100100010
001101100101011100100010
001010100101011100100010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
```

001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 22 --> A3 (PTN[7:1] = 22)
001000100101011100100010 -
001001100101011100100010
001000100101011100100010
001101100101011100100010
001010100101011100100010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000

```
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 22 --> A3 (PTN[7:1] = 22)
001000100101011100100010 -
001001100101011100100010
001000100101011100100010
001101100101011100100010
001010100101011100100010 -
```

```
- 78 --> A4 (y = 7, R = 1)
0010011001010111111111000 -
0010001001010111111111000
0010011001010111111111000
0011001101010111111111000
0010111101010111111111000 -
- NOP (Load 11 bits pattern)
0010001101010000000000000 -
0010011101010000000000000
0010001101010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (1)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (2)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (3)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (4)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (5)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (6)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (7)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (8)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- 23 --> A3 (PTN[7:1] = 23)
```



```
001001100101011100100011 -
001000100101011100100011
001001100101011100100011
001100100101011100100011
001011100101011100100011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 23 --> A3 (PTN[7:1] = 23)
001001100101011100100011 -
```

```
001000100101011100100011
001001100101011100100011
001100100101011100100011
001011100101011100100011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 23 --> A3 (PTN[7:1] = 23)
001001100101011100100011 -
001000100101011100100011
001001100101011100100011
001100100101011100100011
001011100101011100100011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 23 --> A3 (PTN[7:1] = 23)
001001100101011100100011 -
001000100101011100100011
001001100101011100100011
001100100101011100100011
001011100101011100100011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 23 --> A3 (PTN[7:1] = 23)  
001001100101011100100011 -  
001000100101011100100011  
001001100101011100100011  
001100100101011100100011  
001011100101011100100011 -  
- 58 --> A4 (y = 5, R = 1)  
001000100101011111011000 -  
001001100101011111011000  
001000100101011111011000  
001101110101011111011000  
001010110101011111011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 23 --> A3 (PTN[7:1] = 23)
001001100101011100100011 -
001000100101011100100011
001001100101011100100011
001100100101011100100011
001011100101011100100011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 23 --> A3 (PTN[7:1] = 23)
001001100101011100100011 -
001000100101011100100011
001001100101011100100011
001100100101011100100011
001011100101011100100011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 24 --> A3 (PTN[7:1] = 24)
001000100101011100100100 -
001001100101011100100100
001000100101011100100100
001101100101011100100100
001010100101011100100100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 24 --> A3 (PTN[7:1] = 24)
001000100101011100100100 -
001001100101011100100100
001000100101011100100100
001101100101011100100100
001010100101011100100100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 24 --> A3 (PTN[7:1] = 24)
001000100101011100100100 -
001001100101011100100100
001000100101011100100100
001101100101011100100100
001010100101011100100100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 24 --> A3 (PTN[7:1] = 24)
001000100101011100100100 -
001001100101011100100100
001000100101011100100100
001101100101011100100100
001010100101011100100100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -

```
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 24 --> A3 (PTN[7:1] = 24)
001000100101011100100100 -
001001100101011100100100
001000100101011100100100
001101100101011100100100
001010100101011100100100 -
- 58 --> A4 (y = 5, R = 1)
```

```
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 24 --> A3 (PTN[7:1] = 24)
001000100101011100100100 -
001001100101011100100100
001000100101011100100100
001101100101011100100100
001010100101011100100100 -
- NOP (9)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 24 --> A3 (PTN[7:1] = 24)
001000100101011100100100 -
001001100101011100100100
001000100101011100100100
001101100101011100100100
001010100101011100100100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 25 --> A3 (PTN[7:1] = 25)
001001100101011100100101 -
001000100101011100100101
001001100101011100100101
001100100101011100100101
001011100101011100100101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 25 --> A3 (PTN[7:1] = 25)  
001001100101011100100101 -  
001000100101011100100101  
001001100101011100100101  
001100100101011100100101  
001011100101011100100101 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001001100101011110101000 -  
001000100101011110101000  
001001100101011110101000  
001100110101011110101000  
001011110101011110101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 25 --> A3 (PTN[7:1] = 25)
001001100101011100100101 -
001000100101011100100101
001001100101011100100101
001100100101011100100101
001011100101011100100101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 25 --> A3 (PTN[7:1] = 25)
001001100101011100100101 -
001000100101011100100101
001001100101011100100101
001100100101011100100101
001011100101011100100101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 25 --> A3 (PTN[7:1] = 25)
001001100101011100100101 -
001000100101011100100101
001001100101011100100101
001100100101011100100101
001011100101011100100101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 25 --> A3 (PTN[7:1] = 25)
001001100101011100100101 -
001000100101011100100101
001001100101011100100101
001100100101011100100101
001011100101011100100101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 25 --> A3 (PTN[7:1] = 25)
001001100101011100100101 -
001000100101011100100101
001001100101011100100101
001100100101011100100101
001011100101011100100101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 26 --> A3 (PTN[7:1] = 26)  
001000100101011100100110 -  
001001100101011100100110  
001000100101011100100110  
001101100101011100100110  
001010100101011100100110 -  
- 18 --> A4 (y = 1, R = 1)  
001001100101011110011000 -  
001000100101011110011000  
001001100101011110011000  
001100110101011110011000  
001011110101011110011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 26 --> A3 (PTN[7:1] = 26)
001000100101011100100110 -
001001100101011100100110
001000100101011100100110
001101100101011100100110
001010100101011100100110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
```


001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 26 --> A3 (PTN[7:1] = 26)
001000100101011100100110 -
001001100101011100100110
001000100101011100100110
001101100101011100100110
001010100101011100100110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -

```
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 26 --> A3 (PTN[7:1] = 26)
001000100101011100100110 -
001001100101011100100110
001000100101011100100110
001101100101011100100110
001010100101011100100110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 26 --> A3 (PTN[7:1] = 26)
001000100101011100100110 -
001001100101011100100110
001000100101011100100110
001101100101011100100110
001010100101011100100110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- 26 --> A3 (PTN[7:1] = 26)  
001000100101011100100110 -  
001001100101011100100110  
001000100101011100100110  
001101100101011100100110  
001010100101011100100110 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001000100101011111101000 -  
001001100101011111101000  
001000100101011111101000  
001101110101011111101000  
001010110101011111101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 26 --> A3 (PTN[7:1] = 26)
001000100101011100100110 -
001001100101011100100110
001000100101011100100110
001101100101011100100110
001010100101011100100110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 27 --> A3 (PTN[7:1] = 27)
001001100101011100100111 -
001000100101011100100111
001001100101011100100111
001100100101011100100111
001011100101011100100111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 27 --> A3 (PTN[7:1] = 27)
001001100101011100100111 -
001000100101011100100111
001001100101011100100111
001100100101011100100111
001011100101011100100111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 27 --> A3 (PTN[7:1] = 27)
001001100101011100100111 -
001000100101011100100111
001001100101011100100111
001100100101011100100111
001011100101011100100111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 27 --> A3 (PTN[7:1] = 27)
001001100101011100100111 -
001000100101011100100111
001001100101011100100111
001100100101011100100111
001011100101011100100111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100110010101111001000 -
00100010010101111001000
00100110010101111001000
00110011010101111001000
00101111010101111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 27 --> A3 (PTN[7:1] = 27)  
001001100101011100100111 -  
001000100101011100100111  
001001100101011100100111  
001100100101011100100111  
001011100101011100100111 -  
- 58 --> A4 (y = 5, R = 1)  
001000100101011111011000 -  
001001100101011111011000  
001000100101011111011000  
001101110101011111011000  
001010110101011111011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 27 --> A3 (PTN[7:1] = 27)
001001100101011100100111 -
001000100101011100100111
001001100101011100100111
001100100101011100100111
001011100101011100100111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 27 --> A3 (PTN[7:1] = 27)
001001100101011100100111 -
001000100101011100100111
001001100101011100100111
001100100101011100100111
001011100101011100100111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -

001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A3 (PTN[7:1] = 28)
001000100101011100101000 -
001001100101011100101000
001000100101011100101000
001101100101011100101000
001010100101011100101000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000

```
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A3 (PTN[7:1] = 28)
001000100101011100101000 -
001001100101011100101000
001000100101011100101000
001101100101011100101000
001010100101011100101000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- 28 --> A3 (PTN[7:1] = 28)  
001000100101011100101000 -  
001001100101011100101000  
001000100101011100101000  
001101100101011100101000  
001010100101011100101000 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- 28 --> A3 (PTN[7:1] = 28)
001000100101011100101000 -
001001100101011100101000
001000100101011100101000
001101100101011100101000
001010100101011100101000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A3 (PTN[7:1] = 28)
001000100101011100101000 -
001001100101011100101000
001000100101011100101000
001101100101011100101000
001010100101011100101000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A3 (PTN[7:1] = 28)
001000100101011100101000 -
001001100101011100101000
001000100101011100101000
001101100101011100101000
001010100101011100101000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A3 (PTN[7:1] = 28)
001000100101011100101000 -
001001100101011100101000
001000100101011100101000
001101100101011100101000
001010100101011100101000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 29 --> A3 (PTN[7:1] = 29)
001001100101011100101001 -
001000100101011100101001
001001100101011100101001
001100100101011100101001
001011100101011100101001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 29 --> A3 (PTN[7:1] = 29)  
001001100101011100101001 -  
001000100101011100101001  
001001100101011100101001  
001100100101011100101001  
001011100101011100101001 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001001100101011110101000 -  
001000100101011110101000  
001001100101011110101000  
001100110101011110101000  
001011110101011110101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 29 --> A3 (PTN[7:1] = 29)
001001100101011100101001 -
001000100101011100101001
001001100101011100101001
001100100101011100101001
001011100101011100101001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 29 --> A3 (PTN[7:1] = 29)
001001100101011100101001 -
001000100101011100101001
001001100101011100101001
001100100101011100101001
001011100101011100101001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 29 --> A3 (PTN[7:1] = 29)
001001100101011100101001 -
001000100101011100101001
001001100101011100101001
001100100101011100101001
001011100101011100101001 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
00110111010101111011000
00101011010101111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000

001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 29 --> A3 (PTN[7:1] = 29)
001001100101011100101001 -
001000100101011100101001
001001100101011100101001
001100100101011100101001
001011100101011100101001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000

```
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 29 --> A3 (PTN[7:1] = 29)
001001100101011100101001 -
001000100101011100101001
001001100101011100101001
001100100101011100101001
```

```
001011100101011100101001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- 2A --> A3 (PTN[7:1] = 2A)
001000100101011100101010 -
001001100101011100101010
001000100101011100101010
001101100101011100101010
001010100101011100101010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2A --> A3 (PTN[7:1] = 2A)
```

001000100101011100101010 -
001001100101011100101010
001000100101011100101010
001101100101011100101010
001010100101011100101010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2A --> A3 (PTN[7:1] = 2A)
001000100101011100101010 -
001001100101011100101010
001000100101011100101010
001101100101011100101010
001010100101011100101010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
```


001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2A --> A3 (PTN[7:1] = 2A)
001000100101011100101010 -
001001100101011100101010
001000100101011100101010
001101100101011100101010
001010100101011100101010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2A --> A3 (PTN[7:1] = 2A)
001000100101011100101010 -
001001100101011100101010
001000100101011100101010
001101100101011100101010
001010100101011100101010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 2A --> A3 (PTN[7:1] = 2A)  
001000100101011100101010 -  
001001100101011100101010  
001000100101011100101010  
001101100101011100101010  
001010100101011100101010 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001000100101011111101000 -  
001001100101011111101000  
001000100101011111101000  
001101110101011111101000  
001010110101011111101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2A --> A3 (PTN[7:1] = 2A)
001000100101011100101010 -
001001100101011100101010
001000100101011100101010
001101100101011100101010
001010100101011100101010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2B --> A3 (PTN[7:1] = 2B)
001001100101011100101011 -
001000100101011100101011
001001100101011100101011
001100100101011100101011
001011100101011100101011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2B --> A3 (PTN[7:1] = 2B)
001001100101011100101011 -
001000100101011100101011
001001100101011100101011
001100100101011100101011
001011100101011100101011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2B --> A3 (PTN[7:1] = 2B)
001001100101011100101011 -
001000100101011100101011
001001100101011100101011
001100100101011100101011
001011100101011100101011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
```

001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2B --> A3 (PTN[7:1] = 2B)
001001100101011100101011 -
001000100101011100101011
001001100101011100101011
001100100101011100101011
001011100101011100101011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000


```
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2B --> A3 (PTN[7:1] = 2B)
001001100101011100101011 -
001000100101011100101011
001001100101011100101011
001100100101011100101011
001011100101011100101011 -
```

```
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2B --> A3 (PTN[7:1] = 2B)
001001100101011100101011 -
001000100101011100101011
001001100101011100101011
001100100101011100101011
001011100101011100101011 -
- NOP (9)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2B --> A3 (PTN[7:1] = 2B)
001001100101011100101011 -
001000100101011100101011
001001100101011100101011
001100100101011100101011
001011100101011100101011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2C --> A3 (PTN[7:1] = 2C)
001000100101011100101100 -
001001100101011100101100
001000100101011100101100
001101100101011100101100
001010100101011100101100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2C --> A3 (PTN[7:1] = 2C)
001000100101011100101100 -
001001100101011100101100
001000100101011100101100
001101100101011100101100
001010100101011100101100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2C --> A3 (PTN[7:1] = 2C)
001000100101011100101100 -
001001100101011100101100
001000100101011100101100
001101100101011100101100
001010100101011100101100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2C --> A3 (PTN[7:1] = 2C)
001000100101011100101100 -
001001100101011100101100
001000100101011100101100
001101100101011100101100
001010100101011100101100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2C --> A3 (PTN[7:1] = 2C)
001000100101011100101100 -
001001100101011100101100
001000100101011100101100
001101100101011100101100
001010100101011100101100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2C --> A3 (PTN[7:1] = 2C)
001000100101011100101100 -
001001100101011100101100
001000100101011100101100
001101100101011100101100
001010100101011100101100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2C --> A3 (PTN[7:1] = 2C)
001000100101011100101100 -
001001100101011100101100
001000100101011100101100
001101100101011100101100
001010100101011100101100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2D --> A3 (PTN[7:1] = 2D)
001001100101011100101101 -
001000100101011100101101
001001100101011100101101
001100100101011100101101
001011100101011100101101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 2D --> A3 (PTN[7:1] = 2D)  
001001100101011100101101 -  
001000100101011100101101  
001001100101011100101101  
001100100101011100101101  
001011100101011100101101 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001001100101011110101000 -  
001000100101011110101000  
001001100101011110101000  
001100110101011110101000  
001011110101011110101000 -
```

```
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2D --> A3 (PTN[7:1] = 2D)
001001100101011100101101 -
001000100101011100101101
001001100101011100101101
001100100101011100101101
001011100101011100101101 -
- 38 --> A4 (y = 3, R = 1)
```

```
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2D --> A3 (PTN[7:1] = 2D)
001001100101011100101101 -
001000100101011100101101
001001100101011100101101
001100100101011100101101
001011100101011100101101 -
- NOP (9)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2D --> A3 (PTN[7:1] = 2D)
001001100101011100101101 -
001000100101011100101101
001001100101011100101101
001100100101011100101101
001011100101011100101101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 2D --> A3 (PTN[7:1] = 2D)
001001100101011100101101 -
001000100101011100101101
001001100101011100101101
001100100101011100101101
001011100101011100101101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2D --> A3 (PTN[7:1] = 2D)
001001100101011100101101 -
001000100101011100101101
001001100101011100101101
001100100101011100101101
001011100101011100101101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2E --> A3 (PTN[7:1] = 2E)
001000100101011100101110 -
001001100101011100101110
001000100101011100101110
001101100101011100101110
001010100101011100101110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2E --> A3 (PTN[7:1] = 2E)
001000100101011100101110 -
001001100101011100101110
001000100101011100101110
001101100101011100101110
001010100101011100101110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2E --> A3 (PTN[7:1] = 2E)
001000100101011100101110 -
001001100101011100101110
001000100101011100101110
001101100101011100101110
001010100101011100101110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2E --> A3 (PTN[7:1] = 2E)
001000100101011100101110 -
001001100101011100101110
001000100101011100101110
001101100101011100101110
001010100101011100101110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2E --> A3 (PTN[7:1] = 2E)
001000100101011100101110 -
001001100101011100101110
001000100101011100101110
001101100101011100101110
001010100101011100101110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000


```
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 2E --> A3 (PTN[7:1] = 2E)  
001000100101011100101110 -  
001001100101011100101110  
001000100101011100101110  
001101100101011100101110  
001010100101011100101110 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
00100010010101111101000 -  
00100110010101111101000  
00100010010101111101000  
00110111010101111101000  
00101011010101111101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 2E --> A3 (PTN[7:1] = 2E)
001000100101011100101110 -
001001100101011100101110
001000100101011100101110
001101100101011100101110
001010100101011100101110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
```

001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2F --> A3 (PTN[7:1] = 2F)
001001100101011100101111 -
001000100101011100101111
001001100101011100101111
001100100101011100101111
001011100101011100101111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -

```
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2F --> A3 (PTN[7:1] = 2F)
001001100101011100101111 -
001000100101011100101111
001001100101011100101111
001100100101011100101111
001011100101011100101111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 2F --> A3 (PTN[7:1] = 2F)
001001100101011100101111 -
001000100101011100101111
001001100101011100101111
001100100101011100101111
001011100101011100101111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -
- 2F --> A3 (PTN[7:1] = 2F)
001001100101011100101111 -
001000100101011100101111
001001100101011100101111
001100100101011100101111
001011100101011100101111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2F --> A3 (PTN[7:1] = 2F)
001001100101011100101111 -
001000100101011100101111
001001100101011100101111
001100100101011100101111
001011100101011100101111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2F --> A3 (PTN[7:1] = 2F)
001001100101011100101111 -
001000100101011100101111
001001100101011100101111
001100100101011100101111
001011100101011100101111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 2F --> A3 (PTN[7:1] = 2F)
001001100101011100101111 -
001000100101011100101111
001001100101011100101111
001100100101011100101111
001011100101011100101111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 30 --> A3 (PTN[7:1] = 30)
001000100101011100110000 -
001001100101011100110000
001000100101011100110000
001101100101011100110000
001010100101011100110000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011100110000 -
001000100101011100110000
001001100101011100110000
001100110101011100110000
001011110101011100110000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 30 --> A3 (PTN[7:1] = 30)
001000100101011100110000 -
001001100101011100110000
001000100101011100110000
001101100101011100110000
001010100101011100110000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 30 --> A3 (PTN[7:1] = 30)  
001000100101011100110000 -  
001001100101011100110000  
001000100101011100110000  
001101100101011100110000  
001010100101011100110000 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 30 --> A3 (PTN[7:1] = 30)
001000100101011100110000 -
001001100101011100110000
001000100101011100110000
001101100101011100110000
001010100101011100110000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 30 --> A3 (PTN[7:1] = 30)
001000100101011100110000 -
001001100101011100110000
001000100101011100110000
001101100101011100110000
001010100101011100110000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -

```
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 30 --> A3 (PTN[7:1] = 30)
001000100101011100110000 -
001001100101011100110000
001000100101011100110000
001101100101011100110000
001010100101011100110000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
```



```
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 30 --> A3 (PTN[7:1] = 30)
001000100101011100110000 -
001001100101011100110000
001000100101011100110000
```

```
001101100101011100110000
001010100101011100110000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -
- 31 --> A3 (PTN[7:1] = 31)
001001100101011100110001 -
001000100101011100110001
001001100101011100110001
001100100101011100110001
001011100101011100110001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- 31 --> A3 (PTN[7:1] = 31)
001001100101011100110001 -
001000100101011100110001
001001100101011100110001
001100100101011100110001
001011100101011100110001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 31 --> A3 (PTN[7:1] = 31)
001001100101011100110001 -
001000100101011100110001
001001100101011100110001
001100100101011100110001
001011100101011100110001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 31 --> A3 (PTN[7:1] = 31)
001001100101011100110001 -
001000100101011100110001
001001100101011100110001
001100100101011100110001
001011100101011100110001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 31 --> A3 (PTN[7:1] = 31)
001001100101011100110001 -
001000100101011100110001
001001100101011100110001
001100100101011100110001
001011100101011100110001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 31 --> A3 (PTN[7:1] = 31)
001001100101011100110001 -
001000100101011100110001
001001100101011100110001
001100100101011100110001
001011100101011100110001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 31 --> A3 (PTN[7:1] = 31)  
001001100101011100110001 -  
001000100101011100110001  
001001100101011100110001  
001100100101011100110001  
001011100101011100110001 -  
- 78 --> A4 (y = 7, R = 1)  
001000100101011111111000 -  
001001100101011111111000  
001000100101011111111000  
001101110101011111111000  
001010110101011111111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 32 --> A3 (PTN[7:1] = 32)
001000100101011100110010 -
001001100101011100110010
001000100101011100110010
001101100101011100110010
001010100101011100110010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 32 --> A3 (PTN[7:1] = 32)
001000100101011100110010 -
001001100101011100110010
001000100101011100110010
001101100101011100110010
001010100101011100110010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 32 --> A3 (PTN[7:1] = 32)
001000100101011100110010 -
001001100101011100110010
001000100101011100110010
001101100101011100110010
001010100101011100110010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000

001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 32 --> A3 (PTN[7:1] = 32)
001000100101011100110010 -
001001100101011100110010
001000100101011100110010
001101100101011100110010
001010100101011100110010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000

```
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 32 --> A3 (PTN[7:1] = 32)
001000100101011100110010 -
001001100101011100110010
001000100101011100110010
001101100101011100110010
```

```
001010100101011100110010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 32 --> A3 (PTN[7:1] = 32)
001000100101011100110010 -
001001100101011100110010
001000100101011100110010
001101100101011100110010
001010100101011100110010 -
```

```
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 32 --> A3 (PTN[7:1] = 32)
001000100101011100110010 -
001001100101011100110010
001000100101011100110010
001101100101011100110010
001010100101011100110010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 33 --> A3 (PTN[7:1] = 33)
001001100101011100110011 -
001000100101011100110011
001001100101011100110011
001100100101011100110011
001011100101011100110011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 33 --> A3 (PTN[7:1] = 33)
001001100101011100110011 -
001000100101011100110011
001001100101011100110011
001100100101011100110011
001011100101011100110011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 33 --> A3 (PTN[7:1] = 33)
001001100101011100110011 -
001000100101011100110011
001001100101011100110011
001100100101011100110011
001011100101011100110011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 33 --> A3 (PTN[7:1] = 33)  
001001100101011100110011 -  
001000100101011100110011  
001001100101011100110011  
001100100101011100110011  
001011100101011100110011 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001001100101011111001000 -  
001000100101011111001000  
001001100101011111001000  
001100110101011111001000  
001011110101011111001000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 33 --> A3 (PTN[7:1] = 33)
001001100101011100110011 -
001000100101011100110011
001001100101011100110011
001100100101011100110011
001011100101011100110011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 33 --> A3 (PTN[7:1] = 33)
001001100101011100110011 -
001000100101011100110011
001001100101011100110011
001100100101011100110011
001011100101011100110011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 33 --> A3 (PTN[7:1] = 33)
001001100101011100110011 -
001000100101011100110011
001001100101011100110011
001100100101011100110011
001011100101011100110011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 34 --> A3 (PTN[7:1] = 34)
001000100101011100110100 -
001001100101011100110100
001000100101011100110100
001101100101011100110100
001010100101011100110100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
```

001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 34 --> A3 (PTN[7:1] = 34)
001000100101011100110100 -
001001100101011100110100
001000100101011100110100
001101100101011100110100
001010100101011100110100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000

```
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 34 --> A3 (PTN[7:1] = 34)
001000100101011100110100 -
001001100101011100110100
001000100101011100110100
001101100101011100110100
001010100101011100110100 -
```

```
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 34 --> A3 (PTN[7:1] = 34)
001000100101011100110100 -
001001100101011100110100
001000100101011100110100
001101100101011100110100
001010100101011100110100 -
- NOP (9)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 34 --> A3 (PTN[7:1] = 34)
001000100101011100110100 -
001001100101011100110100
001000100101011100110100
001101100101011100110100
001010100101011100110100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 34 --> A3 (PTN[7:1] = 34)
001000100101011100110100 -
001001100101011100110100
001000100101011100110100
001101100101011100110100
001010100101011100110100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 34 --> A3 (PTN[7:1] = 34)
001000100101011100110100 -
001001100101011100110100
001000100101011100110100
001101100101011100110100
001010100101011100110100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 35 --> A3 (PTN[7:1] = 35)  
001001100101011100110101 -  
001000100101011100110101  
001001100101011100110101  
001100100101011100110101  
001011100101011100110101 -  
- 18 --> A4 (y = 1, R = 1)  
001000100101011110011000 -  
001001100101011110011000  
001000100101011110011000  
001101110101011110011000  
001010110101011110011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 35 --> A3 (PTN[7:1] = 35)
001001100101011100110101 -
001000100101011100110101
001001100101011100110101
001100100101011100110101
001011100101011100110101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 35 --> A3 (PTN[7:1] = 35)
001001100101011100110101 -
001000100101011100110101
001001100101011100110101
001100100101011100110101
001011100101011100110101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 35 --> A3 (PTN[7:1] = 35)
001001100101011100110101 -
001000100101011100110101
001001100101011100110101
001100100101011100110101
001011100101011100110101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 35 --> A3 (PTN[7:1] = 35)
001001100101011100110101 -
001000100101011100110101
001001100101011100110101
001100100101011100110101
001011100101011100110101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 35 --> A3 (PTN[7:1] = 35)
001001100101011100110101 -
001000100101011100110101
001001100101011100110101
001100100101011100110101
001011100101011100110101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 35 --> A3 (PTN[7:1] = 35)
001001100101011100110101 -
001000100101011100110101
001001100101011100110101
001100100101011100110101
001011100101011100110101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -

```

- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 36 --> A3 (PTN[7:1] = 36)
001000100101011100110110 -
001001100101011100110110
001000100101011100110110
001101100101011100110110
001010100101011100110110 -
- 18 --> A4 (y = 1, R = 1)

```



```
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 36 --> A3 (PTN[7:1] = 36)
001000100101011100110110 -
001001100101011100110110
001000100101011100110110
001101100101011100110110
001010100101011100110110 -
- NOP (9)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 36 --> A3 (PTN[7:1] = 36)
001000100101011100110110 -
001001100101011100110110
001000100101011100110110
001101100101011100110110
001010100101011100110110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 36 --> A3 (PTN[7:1] = 36)
001000100101011100110110 -
001001100101011100110110
001000100101011100110110
001101100101011100110110
001010100101011100110110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 36 --> A3 (PTN[7:1] = 36)  
001000100101011100110110 -  
001001100101011100110110  
001000100101011100110110  
001101100101011100110110  
001010100101011100110110 -  
- 58 --> A4 (y = 5, R = 1)  
001001100101011111011000 -  
001000100101011111011000  
001001100101011111011000  
001100110101011111011000  
001011110101011111011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 36 --> A3 (PTN[7:1] = 36)
001000100101011100110110 -
001001100101011100110110
001000100101011100110110
001101100101011100110110
001010100101011100110110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 36 --> A3 (PTN[7:1] = 36)
001000100101011100110110 -
001001100101011100110110
001000100101011100110110
001101100101011100110110
001010100101011100110110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 37 --> A3 (PTN[7:1] = 37)
001001100101011100110111 -
001000100101011100110111
001001100101011100110111
001100100101011100110111
001011100101011100110111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 37 --> A3 (PTN[7:1] = 37)
001001100101011100110111 -
001000100101011100110111
001001100101011100110111
001100100101011100110111
001011100101011100110111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 37 --> A3 (PTN[7:1] = 37)
001001100101011100110111 -
001000100101011100110111
001001100101011100110111
001100100101011100110111
001011100101011100110111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 37 --> A3 (PTN[7:1] = 37)  
001001100101011100110111 -  
001000100101011100110111  
001001100101011100110111  
001100100101011100110111  
001011100101011100110111 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001001100101011111001000 -  
001000100101011111001000  
001001100101011111001000  
001100110101011111001000  
001011110101011111001000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 37 --> A3 (PTN[7:1] = 37)
001001100101011100110111 -
001000100101011100110111
001001100101011100110111
001100100101011100110111
001011100101011100110111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)

001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 37 --> A3 (PTN[7:1] = 37)
001001100101011100110111 -
001000100101011100110111
001001100101011100110111
001100100101011100110111
001011100101011100110111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -

```
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 37 --> A3 (PTN[7:1] = 37)
001001100101011100110111 -
001000100101011100110111
```

```
001001100101011100110111
001100100101011100110111
001011100101011100110111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 38 --> A3 (PTN[7:1] = 38)
001000100101011100111000 -
001001100101011100111000
001000100101011100111000
001101100101011100111000
001010100101011100111000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -
- 38 --> A3 (PTN[7:1] = 38)
001000100101011100111000 -
001001100101011100111000
001000100101011100111000
001101100101011100111000
001010100101011100111000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 38 --> A3 (PTN[7:1] = 38)
001000100101011100111000 -
001001100101011100111000
001000100101011100111000
001101100101011100111000
001010100101011100111000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 38 --> A3 (PTN[7:1] = 38)
001000100101011100111000 -
001001100101011100111000
001000100101011100111000
001101100101011100111000
001010100101011100111000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 38 --> A3 (PTN[7:1] = 38)
001000100101011100111000 -
001001100101011100111000
001000100101011100111000
001101100101011100111000
001010100101011100111000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 38 --> A3 (PTN[7:1] = 38)
001000100101011100111000 -
001001100101011100111000
001000100101011100111000
001101100101011100111000
001010100101011100111000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 38 --> A3 (PTN[7:1] = 38)
001000100101011100111000 -
001001100101011100111000
001000100101011100111000
001101100101011100111000
001010100101011100111000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 39 --> A3 (PTN[7:1] = 39)  
001001100101011100111001 -  
001000100101011100111001  
001001100101011100111001  
001100100101011100111001  
001011100101011100111001 -  
- 18 --> A4 (y = 1, R = 1)  
001000100101011110011000 -  
001001100101011110011000  
001000100101011110011000  
001101110101011110011000  
001010110101011110011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 39 --> A3 (PTN[7:1] = 39)
001001100101011100111001 -
001000100101011100111001
001001100101011100111001
001100100101011100111001
001011100101011100111001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 39 --> A3 (PTN[7:1] = 39)
001001100101011100111001 -
001000100101011100111001
001001100101011100111001
001100100101011100111001
001011100101011100111001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -

001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 39 --> A3 (PTN[7:1] = 39)
001001100101011100111001 -
001000100101011100111001
001001100101011100111001
001100100101011100111001
001011100101011100111001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000

```
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 39 --> A3 (PTN[7:1] = 39)
001001100101011100111001 -
001000100101011100111001
001001100101011100111001
```

```
001100100101011100111001
001011100101011100111001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 39 --> A3 (PTN[7:1] = 39)
001001100101011100111001 -
001000100101011100111001
001001100101011100111001
001100100101011100111001
```

```
001011100101011100111001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 39 --> A3 (PTN[7:1] = 39)
001001100101011100111001 -
001000100101011100111001
001001100101011100111001
001100100101011100111001
001011100101011100111001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3A --> A3 (PTN[7:1] = 3A)
001000100101011100111010 -
001001100101011100111010
001000100101011100111010
001101100101011100111010
001010100101011100111010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3A --> A3 (PTN[7:1] = 3A)
001000100101011100111010 -
001001100101011100111010
001000100101011100111010
001101100101011100111010
001010100101011100111010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3A --> A3 (PTN[7:1] = 3A)
001000100101011100111010 -
001001100101011100111010
001000100101011100111010
001101100101011100111010
001010100101011100111010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3A --> A3 (PTN[7:1] = 3A)
001000100101011100111010 -
001001100101011100111010
001000100101011100111010
001101100101011100111010
001010100101011100111010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 3A --> A3 (PTN[7:1] = 3A)  
001000100101011100111010 -  
001001100101011100111010  
001000100101011100111010  
001101100101011100111010  
001010100101011100111010 -  
- 58 --> A4 (y = 5, R = 1)  
001001100101011111011000 -  
001000100101011111011000  
001001100101011111011000  
001100110101011111011000  
001011110101011111011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3A --> A3 (PTN[7:1] = 3A)
001000100101011100111010 -
001001100101011100111010
001000100101011100111010
001101100101011100111010
001010100101011100111010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3A --> A3 (PTN[7:1] = 3A)
001000100101011100111010 -
001001100101011100111010
001000100101011100111010
001101100101011100111010
001010100101011100111010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3B --> A3 (PTN[7:1] = 3B)
001001100101011100111011 -
001000100101011100111011
001001100101011100111011
001100100101011100111011
001011100101011100111011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000

001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3B --> A3 (PTN[7:1] = 3B)
001001100101011100111011 -
001000100101011100111011
001001100101011100111011
001100100101011100111011
001011100101011100111011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000

```
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3B --> A3 (PTN[7:1] = 3B)
001001100101011100111011 -
001000100101011100111011
001001100101011100111011
001100100101011100111011
```



```
001011100101011100111011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3B --> A3 (PTN[7:1] = 3B)
001001100101011100111011 -
001000100101011100111011
001001100101011100111011
001100100101011100111011
001011100101011100111011 -
```

```
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3B --> A3 (PTN[7:1] = 3B)
001001100101011100111011 -
001000100101011100111011
001001100101011100111011
001100100101011100111011
001011100101011100111011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3B --> A3 (PTN[7:1] = 3B)
001001100101011100111011 -
001000100101011100111011
001001100101011100111011
001100100101011100111011
001011100101011100111011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3B --> A3 (PTN[7:1] = 3B)
001001100101011100111011 -
001000100101011100111011
001001100101011100111011
001100100101011100111011
001011100101011100111011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3C --> A3 (PTN[7:1] = 3C)
001000100101011100111100 -
001001100101011100111100
001000100101011100111100
001101100101011100111100
001010100101011100111100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 3C --> A3 (PTN[7:1] = 3C)  
001000100101011100111100 -  
001001100101011100111100  
001000100101011100111100  
001101100101011100111100  
001010100101011100111100 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001000100101011110101000 -  
001001100101011110101000  
001000100101011110101000  
001101110101011110101000  
001010110101011110101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3C --> A3 (PTN[7:1] = 3C)
001000100101011100111100 -
001001100101011100111100
001000100101011100111100
001101100101011100111100
001010100101011100111100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3C --> A3 (PTN[7:1] = 3C)
001000100101011100111100 -
001001100101011100111100
001000100101011100111100
001101100101011100111100
001010100101011100111100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3C --> A3 (PTN[7:1] = 3C)
001000100101011100111100 -
001001100101011100111100
001000100101011100111100
001101100101011100111100
001010100101011100111100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3C --> A3 (PTN[7:1] = 3C)
001000100101011100111100 -
001001100101011100111100
001000100101011100111100
001101100101011100111100
001010100101011100111100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
```

001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3C --> A3 (PTN[7:1] = 3C)
001000100101011100111100 -
001001100101011100111100
001000100101011100111100
001101100101011100111100
001010100101011100111100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000

```
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3D --> A3 (PTN[7:1] = 3D)
001001100101011100111101 -
001000100101011100111101
001001100101011100111101
001100100101011100111101
001011100101011100111101 -
```

```
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3D --> A3 (PTN[7:1] = 3D)
001001100101011100111101 -
001000100101011100111101
001001100101011100111101
001100100101011100111101
001011100101011100111101 -
- NOP (9)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3D --> A3 (PTN[7:1] = 3D)
001001100101011100111101 -
001000100101011100111101
001001100101011100111101
001100100101011100111101
001011100101011100111101 -
- 38 --> A4 (y = 3, R = 1)
00100010010101110111000 -
00100110010101110111000
00100010010101110111000
00110111010101110111000
00101011010101110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3D --> A3 (PTN[7:1] = 3D)
001001100101011100111101 -
001000100101011100111101
001001100101011100111101
001100100101011100111101
001011100101011100111101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3D --> A3 (PTN[7:1] = 3D)
001001100101011100111101 -
001000100101011100111101
001001100101011100111101
001100100101011100111101
001011100101011100111101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3D --> A3 (PTN[7:1] = 3D)
001001100101011100111101 -
001000100101011100111101
001001100101011100111101
001100100101011100111101
001011100101011100111101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3D --> A3 (PTN[7:1] = 3D)
001001100101011100111101 -
001000100101011100111101
001001100101011100111101
001100100101011100111101
001011100101011100111101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3E --> A3 (PTN[7:1] = 3E)
001000100101011100111110 -
001001100101011100111110
001000100101011100111110
001101100101011100111110
001010100101011100111110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3E --> A3 (PTN[7:1] = 3E)
001000100101011100111110 -
001001100101011100111110
001000100101011100111110
001101100101011100111110
001010100101011100111110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3E --> A3 (PTN[7:1] = 3E)
001000100101011100111110 -
001001100101011100111110
001000100101011100111110
001101100101011100111110
001010100101011100111110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3E --> A3 (PTN[7:1] = 3E)
001000100101011100111110 -
001001100101011100111110
001000100101011100111110
001101100101011100111110
001010100101011100111110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 3E --> A3 (PTN[7:1] = 3E)  
001000100101011100111110 -  
001001100101011100111110  
001000100101011100111110  
001101100101011100111110  
001010100101011100111110 -  
- 58 --> A4 (y = 5, R = 1)  
00100110010101111011000 -  
00100010010101111011000  
00100110010101111011000  
00110011010101111011000  
00101111010101111011000 -
```

```
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3E --> A3 (PTN[7:1] = 3E)
001000100101011100111110 -
001001100101011100111110
001000100101011100111110
001101100101011100111110
001010100101011100111110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
```

```
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 3E --> A3 (PTN[7:1] = 3E)
001000100101011100111110 -
```

```
001001100101011100111110
001000100101011100111110
001101100101011100111110
001010100101011100111110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3F --> A3 (PTN[7:1] = 3F)
001001100101011100111111 -
001000100101011100111111
001001100101011100111111
001100100101011100111111
001011100101011100111111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 3F --> A3 (PTN[7:1] = 3F)
001001100101011100111111 -
001000100101011100111111
001001100101011100111111
001100100101011100111111
001011100101011100111111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 3F --> A3 (PTN[7:1] = 3F)  
001001100101011100111111 -  
001000100101011100111111  
001001100101011100111111  
001100100101011100111111  
001011100101011100111111 -  
- 38 --> A4 (y = 3, R = 1)  
001000100101011110111000 -  
001001100101011110111000  
001000100101011110111000  
001101110101011110111000  
001010110101011110111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3F --> A3 (PTN[7:1] = 3F)
001001100101011100111111 -
001000100101011100111111
001001100101011100111111
001100100101011100111111
001011100101011100111111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3F --> A3 (PTN[7:1] = 3F)
001001100101011100111111 -
001000100101011100111111
001001100101011100111111
001100100101011100111111
001011100101011100111111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
```

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3F --> A3 (PTN[7:1] = 3F)
001001100101011100111111 -
001000100101011100111111
001001100101011100111111
001100100101011100111111
001011100101011100111111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 3F --> A3 (PTN[7:1] = 3F)
001001100101011100111111 -
001000100101011100111111
001001100101011100111111
001100100101011100111111
001011100101011100111111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 40 --> A3 (PTN[7:1] = 40)
001000100101011101000000 -
001001100101011101000000
001000100101011101000000
001101100101011101000000
001010100101011101000000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 40 --> A3 (PTN[7:1] = 40)  
001000100101011101000000 -  
001001100101011101000000  
001000100101011101000000  
001101100101011101000000  
001010100101011101000000 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001000100101011110101000 -  
001001100101011110101000  
001000100101011110101000  
001101110101011110101000  
001010110101011110101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 40 --> A3 (PTN[7:1] = 40)
001000100101011101000000 -
001001100101011101000000
001000100101011101000000
001101100101011101000000
001010100101011101000000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
```

001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 40 --> A3 (PTN[7:1] = 40)
001000100101011101000000 -
001001100101011101000000
001000100101011101000000
001101100101011101000000
001010100101011101000000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -

```
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 40 --> A3 (PTN[7:1] = 40)
001000100101011101000000 -
001001100101011101000000
```



```
001000100101011101000000
001101100101011101000000
001010100101011101000000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 40 --> A3 (PTN[7:1] = 40)
001000100101011101000000 -
001001100101011101000000
001000100101011101000000
```

```
001101100101011101000000
001010100101011101000000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 40 --> A3 (PTN[7:1] = 40)  
001000100101011101000000 -  
001001100101011101000000  
001000100101011101000000  
001101100101011101000000  
001010100101011101000000 -  
- 78 --> A4 (y = 7, R = 1)  
001001100101011111111000 -  
001000100101011111111000  
001001100101011111111000  
001100110101011111111000  
001011110101011111111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 41 --> A3 (PTN[7:1] = 41)
001001100101011101000001 -
001000100101011101000001
001001100101011101000001
001100100101011101000001
001011100101011101000001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 41 --> A3 (PTN[7:1] = 41)
001001100101011101000001 -
001000100101011101000001
001001100101011101000001
001100100101011101000001
001011100101011101000001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 41 --> A3 (PTN[7:1] = 41)
001001100101011101000001 -
001000100101011101000001
001001100101011101000001
001100100101011101000001
001011100101011101000001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 41 --> A3 (PTN[7:1] = 41)
001001100101011101000001 -
001000100101011101000001
001001100101011101000001
001100100101011101000001
001011100101011101000001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 41 --> A3 (PTN[7:1] = 41)
001001100101011101000001 -
001000100101011101000001
001001100101011101000001
001100100101011101000001
001011100101011101000001 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
00110111010101111011000
00101011010101111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```


001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 41 --> A3 (PTN[7:1] = 41)
001001100101011101000001 -
001000100101011101000001
001001100101011101000001
001100100101011101000001
001011100101011101000001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

```
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 41 --> A3 (PTN[7:1] = 41)
001001100101011101000001 -
001000100101011101000001
001001100101011101000001
001100100101011101000001
001011100101011101000001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 42 --> A3 (PTN[7:1] = 42)
001000100101011101000010 -
001001100101011101000010
001000100101011101000010
001101100101011101000010
001010100101011101000010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -

```
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 42 --> A3 (PTN[7:1] = 42)
001000100101011101000010 -
001001100101011101000010
001000100101011101000010
001101100101011101000010
001010100101011101000010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
00100010010101110101000 -
00100110010101110101000
```

```
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 42 --> A3 (PTN[7:1] = 42)
001000100101011101000010 -
001001100101011101000010
001000100101011101000010
```

```
001101100101011101000010
001010100101011101000010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 42 --> A3 (PTN[7:1] = 42)
001000100101011101000010 -
001001100101011101000010
001000100101011101000010
001101100101011101000010
```

```
001010100101011101000010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 42 --> A3 (PTN[7:1] = 42)
001000100101011101000010 -
001001100101011101000010
001000100101011101000010
001101100101011101000010
001010100101011101000010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 42 --> A3 (PTN[7:1] = 42)
001000100101011101000010 -
001001100101011101000010
001000100101011101000010
001101100101011101000010
001010100101011101000010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 42 --> A3 (PTN[7:1] = 42)
001000100101011101000010 -
001001100101011101000010
001000100101011101000010
001101100101011101000010
001010100101011101000010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 43 --> A3 (PTN[7:1] = 43)
001001100101011101000011 -
001000100101011101000011
001001100101011101000011
001100100101011101000011
001011100101011101000011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 43 --> A3 (PTN[7:1] = 43)
001001100101011101000011 -
001000100101011101000011
001001100101011101000011
001100100101011101000011
001011100101011101000011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 43 --> A3 (PTN[7:1] = 43)  
001001100101011101000011 -  
001000100101011101000011  
001001100101011101000011  
001100100101011101000011  
001011100101011101000011 -  
- 38 --> A4 (y = 3, R = 1)  
001000100101011110111000 -  
001001100101011110111000  
001000100101011110111000  
001101110101011110111000  
001010110101011110111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 43 --> A3 (PTN[7:1] = 43)
001001100101011101000011 -
001000100101011101000011
001001100101011101000011
001100100101011101000011
001011100101011101000011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 43 --> A3 (PTN[7:1] = 43)
001001100101011101000011 -
001000100101011101000011
001001100101011101000011
001100100101011101000011
001011100101011101000011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 43 --> A3 (PTN[7:1] = 43)
001001100101011101000011 -
001000100101011101000011
001001100101011101000011
001100100101011101000011
001011100101011101000011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000

001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 43 --> A3 (PTN[7:1] = 43)
001001100101011101000011 -
001000100101011101000011
001001100101011101000011
001100100101011101000011
001011100101011101000011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000

```
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 44 --> A3 (PTN[7:1] = 44)
001000100101011101000100 -
001001100101011101000100
001000100101011101000100
001101100101011101000100
```

```
001010100101011101000100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 44 --> A3 (PTN[7:1] = 44)
001000100101011101000100 -
001001100101011101000100
001000100101011101000100
001101100101011101000100
001010100101011101000100 -
```

```
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 44 --> A3 (PTN[7:1] = 44)
001000100101011101000100 -
001001100101011101000100
001000100101011101000100
001101100101011101000100
001010100101011101000100 -
- 38 --> A4 (y = 3, R = 1)
00100110010101110111000 -
00100010010101110111000
00100110010101110111000
00110011010101110111000
00101111010101110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 44 --> A3 (PTN[7:1] = 44)
001000100101011101000100 -
001001100101011101000100
001000100101011101000100
001101100101011101000100
001010100101011101000100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 44 --> A3 (PTN[7:1] = 44)
001000100101011101000100 -
001001100101011101000100
001000100101011101000100
001101100101011101000100
001010100101011101000100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 44 --> A3 (PTN[7:1] = 44)
001000100101011101000100 -
001001100101011101000100
001000100101011101000100
001101100101011101000100
001010100101011101000100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000


```
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 44 --> A3 (PTN[7:1] = 44)
001000100101011101000100 -
001001100101011101000100
001000100101011101000100
001101100101011101000100
001010100101011101000100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 45 --> A3 (PTN[7:1] = 45)
001001100101011101000101 -
001000100101011101000101
001001100101011101000101
001100100101011101000101
001011100101011101000101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 45 --> A3 (PTN[7:1] = 45)
001001100101011101000101 -
001000100101011101000101
001001100101011101000101
001100100101011101000101
001011100101011101000101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 45 --> A3 (PTN[7:1] = 45)
001001100101011101000101 -
001000100101011101000101
001001100101011101000101
001100100101011101000101
001011100101011101000101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 45 --> A3 (PTN[7:1] = 45)
001001100101011101000101 -
001000100101011101000101
001001100101011101000101
001100100101011101000101
001011100101011101000101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000

001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 45 --> A3 (PTN[7:1] = 45)
001001100101011101000101 -
001000100101011101000101
001001100101011101000101
001100100101011101000101
001011100101011101000101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000

```
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 45 --> A3 (PTN[7:1] = 45)
001001100101011101000101 -
001000100101011101000101
001001100101011101000101
001100100101011101000101
001011100101011101000101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 45 --> A3 (PTN[7:1] = 45)
```



```
001001100101011101000101 -
001000100101011101000101
001001100101011101000101
001100100101011101000101
001011100101011101000101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 46 --> A3 (PTN[7:1] = 46)
001000100101011101000110 -
001001100101011101000110
001000100101011101000110
001101100101011101000110
001010100101011101000110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 46 --> A3 (PTN[7:1] = 46)
001000100101011101000110 -
001001100101011101000110
001000100101011101000110
001101100101011101000110
001010100101011101000110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 46 --> A3 (PTN[7:1] = 46)
001000100101011101000110 -
001001100101011101000110
001000100101011101000110
001101100101011101000110
001010100101011101000110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 46 --> A3 (PTN[7:1] = 46)
001000100101011101000110 -
001001100101011101000110
001000100101011101000110
001101100101011101000110
001010100101011101000110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

```
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 46 --> A3 (PTN[7:1] = 46)
001000100101011101000110 -
001001100101011101000110
001000100101011101000110
001101100101011101000110
001010100101011101000110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 46 --> A3 (PTN[7:1] = 46)
001000100101011101000110 -
001001100101011101000110
001000100101011101000110
001101100101011101000110
001010100101011101000110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 46 --> A3 (PTN[7:1] = 46)
001000100101011101000110 -
001001100101011101000110
001000100101011101000110
001101100101011101000110
001010100101011101000110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 47 --> A3 (PTN[7:1] = 47)
001001100101011101000111 -
001000100101011101000111
001001100101011101000111
001100100101011101000111
001011100101011101000111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 47 --> A3 (PTN[7:1] = 47)
001001100101011101000111 -
001000100101011101000111
001001100101011101000111
001100100101011101000111
001011100101011101000111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 47 --> A3 (PTN[7:1] = 47)
001001100101011101000111 -
001000100101011101000111
001001100101011101000111
001100100101011101000111
001011100101011101000111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -

```
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 47 --> A3 (PTN[7:1] = 47)
001001100101011101000111 -
001000100101011101000111
001001100101011101000111
001100100101011101000111
001011100101011101000111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
```

```
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 47 --> A3 (PTN[7:1] = 47)
001001100101011101000111 -
```

```
001000100101011101000111
001001100101011101000111
001100100101011101000111
001011100101011101000111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 47 --> A3 (PTN[7:1] = 47)
001001100101011101000111 -
001000100101011101000111
```

```
001001100101011101000111
001100100101011101000111
001011100101011101000111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 47 --> A3 (PTN[7:1] = 47)
001001100101011101000111 -
001000100101011101000111
001001100101011101000111
001100100101011101000111
001011100101011101000111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 48 --> A3 (PTN[7:1] = 48)  
001000100101011101001000 -  
001001100101011101001000  
001000100101011101001000  
001101100101011101001000  
001010100101011101001000 -  
- 18 --> A4 (y = 1, R = 1)  
001001100101011110011000 -  
001000100101011110011000  
001001100101011110011000  
001100110101011110011000  
001011110101011110011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A3 (PTN[7:1] = 48)
001000100101011101001000 -
001001100101011101001000
001000100101011101001000
001101100101011101001000
001010100101011101001000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A3 (PTN[7:1] = 48)
001000100101011101001000 -
001001100101011101001000
001000100101011101001000
001101100101011101001000
001010100101011101001000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A3 (PTN[7:1] = 48)
001000100101011101001000 -
001001100101011101001000
001000100101011101001000
001101100101011101001000
001010100101011101001000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A3 (PTN[7:1] = 48)
001000100101011101001000 -
001001100101011101001000
001000100101011101001000
001101100101011101001000
001010100101011101001000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A3 (PTN[7:1] = 48)
001000100101011101001000 -
001001100101011101001000
001000100101011101001000
001101100101011101001000
001010100101011101001000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 48 --> A3 (PTN[7:1] = 48)  
001000100101011101001000 -  
001001100101011101001000  
001000100101011101001000  
001101100101011101001000  
001010100101011101001000 -  
- 78 --> A4 (y = 7, R = 1)  
001001100101011111111000 -  
001000100101011111111000  
001001100101011111111000  
001100110101011111111000  
001011110101011111111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 49 --> A3 (PTN[7:1] = 49)
001001100101011101001001 -
001000100101011101001001
001001100101011101001001
001100100101011101001001
001011100101011101001001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
```


001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 49 --> A3 (PTN[7:1] = 49)
001001100101011101001001 -
001000100101011101001001
001001100101011101001001
001100100101011101001001
001011100101011101001001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
00100110010101110101000 -

```
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 49 --> A3 (PTN[7:1] = 49)
001001100101011101001001 -
001000100101011101001001
```

```
001001100101011101001001
001100100101011101001001
001011100101011101001001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 49 --> A3 (PTN[7:1] = 49)
001001100101011101001001 -
001000100101011101001001
001001100101011101001001
```

```
001100100101011101001001
001011100101011101001001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 49 --> A3 (PTN[7:1] = 49)  
001001100101011101001001 -  
001000100101011101001001  
001001100101011101001001  
001100100101011101001001  
001011100101011101001001 -  
- 58 --> A4 (y = 5, R = 1)  
001000100101011111011000 -  
001001100101011111011000  
001000100101011111011000  
001101110101011111011000  
001010110101011111011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 49 --> A3 (PTN[7:1] = 49)
001001100101011101001001 -
001000100101011101001001
001001100101011101001001
001100100101011101001001
001011100101011101001001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 49 --> A3 (PTN[7:1] = 49)
001001100101011101001001 -
001000100101011101001001
001001100101011101001001
001100100101011101001001
001011100101011101001001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4A --> A3 (PTN[7:1] = 4A)
001000100101011101001010 -
001001100101011101001010
001000100101011101001010
001101100101011101001010
001010100101011101001010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
```


001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4A --> A3 (PTN[7:1] = 4A)
001000100101011101001010 -
001001100101011101001010
001000100101011101001010
001101100101011101001010
001010100101011101001010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4A --> A3 (PTN[7:1] = 4A)
001000100101011101001010 -
001001100101011101001010
001000100101011101001010
001101100101011101001010
001010100101011101001010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011101110000 -
001000100101011101110000
001001100101011101110000
001100110101011101110000
001011110101011101110000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 4A --> A3 (PTN[7:1] = 4A)  
001000100101011101001010 -  
001001100101011101001010  
001000100101011101001010  
001101100101011101001010  
001010100101011101001010 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001000100101011111001000 -  
001001100101011111001000  
001000100101011111001000  
001101110101011111001000  
001010110101011111001000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4A --> A3 (PTN[7:1] = 4A)
001000100101011101001010 -
001001100101011101001010
001000100101011101001010
001101100101011101001010
001010100101011101001010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4A --> A3 (PTN[7:1] = 4A)
001000100101011101001010 -
001001100101011101001010
001000100101011101001010
001101100101011101001010
001010100101011101001010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -

001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4A --> A3 (PTN[7:1] = 4A)
001000100101011101001010 -
001001100101011101001010
001000100101011101001010
001101100101011101001010
001010100101011101001010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111110000 -
001000100101011111110000

```
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4B --> A3 (PTN[7:1] = 4B)
001001100101011101001011 -
001000100101011101001011
001001100101011101001011
```

```
001100100101011101001011
001011100101011101001011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4B --> A3 (PTN[7:1] = 4B)
001001100101011101001011 -
001000100101011101001011
001001100101011101001011
001100100101011101001011
```



```
001011100101011101001011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4B --> A3 (PTN[7:1] = 4B)
001001100101011101001011 -
001000100101011101001011
001001100101011101001011
001100100101011101001011
001011100101011101001011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4B --> A3 (PTN[7:1] = 4B)
001001100101011101001011 -
001000100101011101001011
001001100101011101001011
001100100101011101001011
001011100101011101001011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4B --> A3 (PTN[7:1] = 4B)
001001100101011101001011 -
001000100101011101001011
001001100101011101001011
001100100101011101001011
001011100101011101001011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4B --> A3 (PTN[7:1] = 4B)
001001100101011101001011 -
001000100101011101001011
001001100101011101001011
001100100101011101001011
001011100101011101001011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4B --> A3 (PTN[7:1] = 4B)
001001100101011101001011 -
001000100101011101001011
001001100101011101001011
001100100101011101001011
001011100101011101001011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 4C --> A3 (PTN[7:1] = 4C)  
001000100101011101001100 -  
001001100101011101001100  
001000100101011101001100  
001101100101011101001100  
001010100101011101001100 -  
- 18 --> A4 (y = 1, R = 1)  
001001100101011110011000 -  
001000100101011110011000  
001001100101011110011000  
001100110101011110011000  
001011110101011110011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4C --> A3 (PTN[7:1] = 4C)
001000100101011101001100 -
001001100101011101001100
001000100101011101001100
001101100101011101001100
001010100101011101001100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4C --> A3 (PTN[7:1] = 4C)
001000100101011101001100 -
001001100101011101001100
001000100101011101001100
001101100101011101001100
001010100101011101001100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4C --> A3 (PTN[7:1] = 4C)
001000100101011101001100 -
001001100101011101001100
001000100101011101001100
001101100101011101001100
001010100101011101001100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000

001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4C --> A3 (PTN[7:1] = 4C)
001000100101011101001100 -
001001100101011101001100
001000100101011101001100
001101100101011101001100
001010100101011101001100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000

001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4C --> A3 (PTN[7:1] = 4C)
001000100101011101001100 -
001001100101011101001100
001000100101011101001100
001101100101011101001100
001010100101011101001100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000

001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

```
- 4C --> A3 (PTN[7:1] = 4C)
001000100101011101001100 -
001001100101011101001100
001000100101011101001100
001101100101011101001100
001010100101011101001100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4D --> A3 (PTN[7:1] = 4D)
001001100101011101001101 -
001000100101011101001101
001001100101011101001101
001100100101011101001101
001011100101011101001101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4D --> A3 (PTN[7:1] = 4D)
001001100101011101001101 -
001000100101011101001101
001001100101011101001101
001100100101011101001101
001011100101011101001101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4D --> A3 (PTN[7:1] = 4D)
001001100101011101001101 -
001000100101011101001101
001001100101011101001101
001100100101011101001101
001011100101011101001101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011101110000 -
001001100101011101110000
001000100101011101110000
001101110101011101110000
001010110101011101110000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4D --> A3 (PTN[7:1] = 4D)
001001100101011101001101 -
001000100101011101001101
001001100101011101001101
001100100101011101001101
001011100101011101001101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 4D --> A3 (PTN[7:1] = 4D)  
001001100101011101001101 -  
001000100101011101001101  
001001100101011101001101  
001100100101011101001101  
001011100101011101001101 -  
- 58 --> A4 (y = 5, R = 1)  
001000100101011111011000 -  
001001100101011111011000  
001000100101011111011000  
001101110101011111011000  
001010110101011111011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4D --> A3 (PTN[7:1] = 4D)
001001100101011101001101 -
001000100101011101001101
001001100101011101001101
001100100101011101001101
001011100101011101001101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4D --> A3 (PTN[7:1] = 4D)
001001100101011101001101 -
001000100101011101001101
001001100101011101001101
001100100101011101001101
001011100101011101001101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4E --> A3 (PTN[7:1] = 4E)
001000100101011101001110 -
001001100101011101001110
001000100101011101001110
001101100101011101001110
001010100101011101001110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4E --> A3 (PTN[7:1] = 4E)
001000100101011101001110 -
001001100101011101001110
001000100101011101001110
001101100101011101001110
001010100101011101001110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4E --> A3 (PTN[7:1] = 4E)
001000100101011101001110 -
001001100101011101001110
001000100101011101001110
001101100101011101001110
001010100101011101001110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
```



```
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4E --> A3 (PTN[7:1] = 4E)
001000100101011101001110 -
001001100101011101001110
001000100101011101001110
001101100101011101001110
001010100101011101001110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4E --> A3 (PTN[7:1] = 4E)
```

```
001000100101011101001110 -
001001100101011101001110
001000100101011101001110
001101100101011101001110
001010100101011101001110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4E --> A3 (PTN[7:1] = 4E)
001000100101011101001110 -
```

```
001001100101011101001110
001000100101011101001110
001101100101011101001110
001010100101011101001110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 4E --> A3 (PTN[7:1] = 4E)
001000100101011101001110 -
001001100101011101001110
001000100101011101001110
001101100101011101001110
001010100101011101001110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4F --> A3 (PTN[7:1] = 4F)
001001100101011101001111 -
001000100101011101001111
001001100101011101001111
001100100101011101001111
001011100101011101001111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4F --> A3 (PTN[7:1] = 4F)
001001100101011101001111 -
001000100101011101001111
001001100101011101001111
001100100101011101001111
001011100101011101001111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4F --> A3 (PTN[7:1] = 4F)
001001100101011101001111 -
001000100101011101001111
001001100101011101001111
001100100101011101001111
001011100101011101001111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4F --> A3 (PTN[7:1] = 4F)
001001100101011101001111 -
001000100101011101001111
001001100101011101001111
001100100101011101001111
001011100101011101001111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4F --> A3 (PTN[7:1] = 4F)
001001100101011101001111 -
001000100101011101001111
001001100101011101001111
001100100101011101001111
001011100101011101001111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4F --> A3 (PTN[7:1] = 4F)
001001100101011101001111 -
001000100101011101001111
001001100101011101001111
001100100101011101001111
001011100101011101001111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 4F --> A3 (PTN[7:1] = 4F)
001001100101011101001111 -
001000100101011101001111
001001100101011101001111
001100100101011101001111
001011100101011101001111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
```

001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 50 --> A3 (PTN[7:1] = 50)
001000100101011101010000 -
001001100101011101010000
001000100101011101010000
001101100101011101010000
001010100101011101010000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -

```
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 50 --> A3 (PTN[7:1] = 50)
001000100101011101010000 -
001001100101011101010000
001000100101011101010000
001101100101011101010000
001010100101011101010000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
```

```
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 50 --> A3 (PTN[7:1] = 50)
001000100101011101010000 -
```

```
001001100101011101010000
001000100101011101010000
001101100101011101010000
001010100101011101010000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 50 --> A3 (PTN[7:1] = 50)
001000100101011101010000 -
001001100101011101010000
```



```
001000100101011101010000
001101100101011101010000
001010100101011101010000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 50 --> A3 (PTN[7:1] = 50)
001000100101011101010000 -
001001100101011101010000
001000100101011101010000
001101100101011101010000
001010100101011101010000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 50 --> A3 (PTN[7:1] = 50)  
001000100101011101010000 -  
001001100101011101010000  
001000100101011101010000  
001101100101011101010000  
001010100101011101010000 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001000100101011111101000 -  
001001100101011111101000  
001000100101011111101000  
001101110101011111101000  
001010110101011111101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 50 --> A3 (PTN[7:1] = 50)
001000100101011101010000 -
001001100101011101010000
001000100101011101010000
001101100101011101010000
001010100101011101010000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 51 --> A3 (PTN[7:1] = 51)
001001100101011101010001 -
001000100101011101010001
001001100101011101010001
001100100101011101010001
001011100101011101010001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 51 --> A3 (PTN[7:1] = 51)
001001100101011101010001 -
001000100101011101010001
001001100101011101010001
001100100101011101010001
001011100101011101010001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 51 --> A3 (PTN[7:1] = 51)
001001100101011101010001 -
001000100101011101010001
001001100101011101010001
001100100101011101010001
001011100101011101010001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 51 --> A3 (PTN[7:1] = 51)
001001100101011101010001 -
001000100101011101010001
001001100101011101010001
001100100101011101010001
001011100101011101010001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 51 --> A3 (PTN[7:1] = 51)  
001001100101011101010001 -  
001000100101011101010001  
001001100101011101010001  
001100100101011101010001  
001011100101011101010001 -  
- 58 --> A4 (y = 5, R = 1)  
001000100101011111011000 -  
001001100101011111011000  
001000100101011111011000  
001101110101011111011000  
001010110101011111011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 51 --> A3 (PTN[7:1] = 51)
001001100101011101010001 -
001000100101011101010001
001001100101011101010001
001100100101011101010001
001011100101011101010001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)

```
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 51 --> A3 (PTN[7:1] = 51)
001001100101011101010001 -
001000100101011101010001
001001100101011101010001
001100100101011101010001
001011100101011101010001 -
- 78 --> A4 (y = 7, R = 1)
00100010010101111111000 -
```

```
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 52 --> A3 (PTN[7:1] = 52)
001000100101011101010010 -
001001100101011101010010
```

```
001000100101011101010010
001101100101011101010010
001010100101011101010010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 52 --> A3 (PTN[7:1] = 52)
001000100101011101010010 -
001001100101011101010010
001000100101011101010010
```

```
001101100101011101010010
001010100101011101010010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 52 --> A3 (PTN[7:1] = 52)  
001000100101011101010010 -  
001001100101011101010010  
001000100101011101010010  
001101100101011101010010  
001010100101011101010010 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 52 --> A3 (PTN[7:1] = 52)
001000100101011101010010 -
001001100101011101010010
001000100101011101010010
001101100101011101010010
001010100101011101010010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 52 --> A3 (PTN[7:1] = 52)
001000100101011101010010 -
001001100101011101010010
001000100101011101010010
001101100101011101010010
001010100101011101010010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 52 --> A3 (PTN[7:1] = 52)
001000100101011101010010 -
001001100101011101010010
001000100101011101010010
001101100101011101010010
001010100101011101010010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 52 --> A3 (PTN[7:1] = 52)
001000100101011101010010 -
001001100101011101010010
001000100101011101010010
001101100101011101010010
001010100101011101010010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 53 --> A3 (PTN[7:1] = 53)
001001100101011101010011 -
001000100101011101010011
001001100101011101010011
001100100101011101010011
001011100101011101010011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 53 --> A3 (PTN[7:1] = 53)
001001100101011101010011 -
001000100101011101010011
001001100101011101010011
001100100101011101010011
001011100101011101010011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

```
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 53 --> A3 (PTN[7:1] = 53)
001001100101011101010011 -
001000100101011101010011
001001100101011101010011
001100100101011101010011
001011100101011101010011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 53 --> A3 (PTN[7:1] = 53)
001001100101011101010011 -
001000100101011101010011
001001100101011101010011
001100100101011101010011
001011100101011101010011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -

001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 53 --> A3 (PTN[7:1] = 53)
001001100101011101010011 -
001000100101011101010011
001001100101011101010011
001100100101011101010011
001011100101011101010011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000


```
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 53 --> A3 (PTN[7:1] = 53)
001001100101011101010011 -
001000100101011101010011
001001100101011101010011
001100100101011101010011
001011100101011101010011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -
- 53 --> A3 (PTN[7:1] = 53)
001001100101011101010011 -
001000100101011101010011
001001100101011101010011
001100100101011101010011
001011100101011101010011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 54 --> A3 (PTN[7:1] = 54)
001000100101011101010100 -
001001100101011101010100
001000100101011101010100
001101100101011101010100
001010100101011101010100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 54 --> A3 (PTN[7:1] = 54)
001000100101011101010100 -
001001100101011101010100
001000100101011101010100
001101100101011101010100
001010100101011101010100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 54 --> A3 (PTN[7:1] = 54)
001000100101011101010100 -
001001100101011101010100
001000100101011101010100
001101100101011101010100
001010100101011101010100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 54 --> A3 (PTN[7:1] = 54)
001000100101011101010100 -
001001100101011101010100
001000100101011101010100
001101100101011101010100
001010100101011101010100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 54 --> A3 (PTN[7:1] = 54)
001000100101011101010100 -
001001100101011101010100
001000100101011101010100
001101100101011101010100
001010100101011101010100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 54 --> A3 (PTN[7:1] = 54)  
001000100101011101010100 -  
001001100101011101010100  
001000100101011101010100  
001101100101011101010100  
001010100101011101010100 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001000100101011111101000 -  
001001100101011111101000  
001000100101011111101000  
001101110101011111101000  
001010110101011111101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 54 --> A3 (PTN[7:1] = 54)
001000100101011101010100 -
001001100101011101010100
001000100101011101010100
001101100101011101010100
001010100101011101010100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 55 --> A3 (PTN[7:1] = 55)
001001100101011101010101 -
001000100101011101010101
001001100101011101010101
001100100101011101010101
001011100101011101010101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 55 --> A3 (PTN[7:1] = 55)
001001100101011101010101 -
001000100101011101010101
001001100101011101010101
001100100101011101010101
001011100101011101010101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
```

001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 55 --> A3 (PTN[7:1] = 55)
001001100101011101010101 -
001000100101011101010101
001001100101011101010101
001100100101011101010101
001011100101011101010101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000

```
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 55 --> A3 (PTN[7:1] = 55)
001001100101011101010101 -
001000100101011101010101
001001100101011101010101
001100100101011101010101
001011100101011101010101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001001100101011111001000 -  
001000100101011111001000  
001001100101011111001000  
001100110101011111001000  
001011110101011111001000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- 55 --> A3 (PTN[7:1] = 55)
001001100101011101010101 -
001000100101011101010101
001001100101011101010101
001100100101011101010101
001011100101011101010101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 55 --> A3 (PTN[7:1] = 55)
```



```
001001100101011101010101 -
001000100101011101010101
001001100101011101010101
001100100101011101010101
001011100101011101010101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 55 --> A3 (PTN[7:1] = 55)
001001100101011101010101 -
001000100101011101010101
001001100101011101010101
001100100101011101010101
001011100101011101010101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 56 --> A3 (PTN[7:1] = 56)
001000100101011101010110 -
001001100101011101010110
001000100101011101010110
001101100101011101010110
001010100101011101010110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 56 --> A3 (PTN[7:1] = 56)
0010001001010111010110 -
0010011001010111010110
0010001001010111010110
0011011001010111010110
0010101001010111010110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 56 --> A3 (PTN[7:1] = 56)
001000100101011101010110 -
001001100101011101010110
001000100101011101010110
001101100101011101010110
001010100101011101010110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

- NOP (4)
001000100101000000000000 -
001001100101000000000000 -
001000100101000000000000 -
001101100101000000000000 -
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000 -
001000100101000000000000 -
001101100101000000000000 -
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- 56 --> A3 (PTN[7:1] = 56)
001000100101011101010110 -
001001100101011101010110 -
001000100101011101010110 -
001101100101011101010110 -
001010100101011101010110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000 -
001000100101011111001000 -
001101110101011111001000 -
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000 -
001001110101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000 -
001000100101000000000000 -
001101100101000000000000 -
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- NOP (3)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 56 --> A3 (PTN[7:1] = 56)
001000100101011101010110 -
001001100101011101010110
001000100101011101010110
001101100101011101010110
001010100101011101010110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 56 --> A3 (PTN[7:1] = 56)
001000100101011101010110 -
001001100101011101010110
001000100101011101010110
001101100101011101010110
001010100101011101010110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000


```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 56 --> A3 (PTN[7:1] = 56)
0010001001010111010110 -
0010011001010111010110
0010001001010111010110
0011011001010111010110
0010101001010111010110 -
- 78 --> A4 (y = 7, R = 1)
00100110010101111111000 -
00100010010101111111000
00100110010101111111000
00110011010101111111000
00101111010101111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 57 --> A3 (PTN[7:1] = 57)
001001100101011101010111 -
001000100101011101010111
001001100101011101010111
001100100101011101010111
001011100101011101010111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
```

```
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 57 --> A3 (PTN[7:1] = 57)
001001100101011101010111 -
001000100101011101010111
001001100101011101010111
001100100101011101010111
001011100101011101010111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 57 --> A3 (PTN[7:1] = 57)
```

```
001001100101011101010111 -
001000100101011101010111
001001100101011101010111
001100100101011101010111
001011100101011101010111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 57 --> A3 (PTN[7:1] = 57)
001001100101011101010111 -
```

```
001000100101011101010111
001001100101011101010111
001100100101011101010111
001011100101011101010111 -
- NOP (9)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
00100011010100000000000000 -
00100111010100000000000000
00100011010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (1)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (2)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (3)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (4)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (5)
00100110010100000000000000 -
00100010010100000000000000
00100110010100000000000000
00110010010100000000000000
00101110010100000000000000 -
- NOP (6)
00100010010100000000000000 -
00100110010100000000000000
00100010010100000000000000
00110110010100000000000000
00101010010100000000000000 -
- NOP (7)
00100110010100000000000000 -
00100010010100000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 57 --> A3 (PTN[7:1] = 57)
001001100101011101010111 -
001000100101011101010111
001001100101011101010111
001100100101011101010111
001011100101011101010111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 57 --> A3 (PTN[7:1] = 57)
001001100101011101010111 -
001000100101011101010111
001001100101011101010111
001100100101011101010111
001011100101011101010111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 57 --> A3 (PTN[7:1] = 57)
001001100101011101010111 -
001000100101011101010111
001001100101011101010111
001100100101011101010111
001011100101011101010111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 58 --> A3 (PTN[7:1] = 58)
001000100101011101011000 -
001001100101011101011000
001000100101011101011000
001101100101011101011000
001010100101011101011000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 58 --> A3 (PTN[7:1] = 58)
001000100101011101011000 -
001001100101011101011000
001000100101011101011000
001101100101011101011000
001010100101011101011000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 58 --> A3 (PTN[7:1] = 58)
001000100101011101011000 -
001001100101011101011000
001000100101011101011000
001101100101011101011000
001010100101011101011000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
```

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 58 --> A3 (PTN[7:1] = 58)
001000100101011101011000 -
001001100101011101011000
001000100101011101011000
001101100101011101011000
001010100101011101011000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 58 --> A3 (PTN[7:1] = 58)
001000100101011101011000 -
001001100101011101011000
001000100101011101011000
001101100101011101011000
001010100101011101011000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 58 --> A3 (PTN[7:1] = 58)
001000100101011101011000 -
001001100101011101011000
001000100101011101011000
001101100101011101011000
001010100101011101011000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -

```
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 58 --> A3 (PTN[7:1] = 58)
001000100101011101011000 -
001001100101011101011000
001000100101011101011000
001101100101011101011000
001010100101011101011000 -
- 78 --> A4 (y = 7, R = 1)
```



```
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 59 --> A3 (PTN[7:1] = 59)
001001100101011101011001 -
```

```
001000100101011101011001
001001100101011101011001
001100100101011101011001
001011100101011101011001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 59 --> A3 (PTN[7:1] = 59)
001001100101011101011001 -
001000100101011101011001
```

```
001001100101011101011001
001100100101011101011001
001011100101011101011001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 59 --> A3 (PTN[7:1] = 59)
001001100101011101011001 -
001000100101011101011001
001001100101011101011001
001100100101011101011001
001011100101011101011001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 59 --> A3 (PTN[7:1] = 59)
001001100101011101011001 -
001000100101011101011001
001001100101011101011001
001100100101011101011001
001011100101011101011001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

```
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 59 --> A3 (PTN[7:1] = 59)
001001100101011101011001 -
001000100101011101011001
001001100101011101011001
001100100101011101011001
001011100101011101011001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 59 --> A3 (PTN[7:1] = 59)
001001100101011101011001 -
001000100101011101011001
001001100101011101011001
001100100101011101011001
001011100101011101011001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 59 --> A3 (PTN[7:1] = 59)
001001100101011101011001 -
001000100101011101011001
001001100101011101011001
001100100101011101011001
001011100101011101011001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000


```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5A --> A3 (PTN[7:1] = 5A)
001000100101011101011010 -
001001100101011101011010
001000100101011101011010
001101100101011101011010
001010100101011101011010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5A --> A3 (PTN[7:1] = 5A)
001000100101011101011010 -
001001100101011101011010
001000100101011101011010
001101100101011101011010
001010100101011101011010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 5A --> A3 (PTN[7:1] = 5A)  
001000100101011101011010 -  
001001100101011101011010  
001000100101011101011010  
001101100101011101011010  
001010100101011101011010 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5A --> A3 (PTN[7:1] = 5A)
001000100101011101011010 -
001001100101011101011010
001000100101011101011010
001101100101011101011010
001010100101011101011010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000
00101011010101111001000 -
- NOP (Load 11 bits pattern)
```

001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5A --> A3 (PTN[7:1] = 5A)
001000100101011101011010 -
001001100101011101011010
001000100101011101011010
001101100101011101011010
001010100101011101011010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -

```
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5A --> A3 (PTN[7:1] = 5A)
001000100101011101011010 -
001001100101011101011010
001000100101011101011010
001101100101011101011010
001010100101011101011010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 5A --> A3 (PTN[7:1] = 5A)
001000100101011101011010 -
001001100101011101011010
001000100101011101011010
001101100101011101011010
001010100101011101011010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 5B --> A3 (PTN[7:1] = 5B)  
001001100101011101011011 -  
001000100101011101011011  
001001100101011101011011  
001100100101011101011011  
001011100101011101011011 -  
- 18 --> A4 (y = 1, R = 1)  
001000100101011110011000 -  
001001100101011110011000  
001000100101011110011000  
001101110101011110011000  
001010110101011110011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5B --> A3 (PTN[7:1] = 5B)
001001100101011101011011 -
001000100101011101011011
001001100101011101011011
001100100101011101011011
001011100101011101011011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5B --> A3 (PTN[7:1] = 5B)
001001100101011101011011 -
001000100101011101011011
001001100101011101011011
001100100101011101011011
001011100101011101011011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5B --> A3 (PTN[7:1] = 5B)
001001100101011101011011 -
001000100101011101011011
001001100101011101011011
001100100101011101011011
001011100101011101011011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
```

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5B --> A3 (PTN[7:1] = 5B)
001001100101011101011011 -
001000100101011101011011
001001100101011101011011
001100100101011101011011
001011100101011101011011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5B --> A3 (PTN[7:1] = 5B)
001001100101011101011011 -
001000100101011101011011
001001100101011101011011
001100100101011101011011
001011100101011101011011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5B --> A3 (PTN[7:1] = 5B)
001001100101011101011011 -
001000100101011101011011
001001100101011101011011
001100100101011101011011
001011100101011101011011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5C --> A3 (PTN[7:1] = 5C)
001000100101011101011100 -
001001100101011101011100
001000100101011101011100
001101100101011101011100
001010100101011101011100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)


```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5C --> A3 (PTN[7:1] = 5C)
001000100101011101011100 -
001001100101011101011100
001000100101011101011100
001101100101011101011100
001010100101011101011100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
00100010010101110101000 -
00100110010101110101000
00100010010101110101000
00110111010101110101000
00101011010101110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
```

001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5C --> A3 (PTN[7:1] = 5C)
001000100101011101011100 -
001001100101011101011100
001000100101011101011100
001101100101011101011100
001010100101011101011100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011101110000 -
001000100101011101110000

```
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5C --> A3 (PTN[7:1] = 5C)
001000100101011101011100 -
001001100101011101011100
001000100101011101011100
001101100101011101011100
001010100101011101011100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- 5C --> A3 (PTN[7:1] = 5C)  
001000100101011101011100 -  
001001100101011101011100  
001000100101011101011100  
001101100101011101011100  
001010100101011101011100 -  
- 58 --> A4 (y = 5, R = 1)  
001001100101011111011000 -  
001000100101011111011000  
001001100101011111011000  
001100110101011111011000  
001011110101011111011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- 5C --> A3 (PTN[7:1] = 5C)
001000100101011101011100 -
001001100101011101011100
001000100101011101011100
001101100101011101011100
001010100101011101011100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5C --> A3 (PTN[7:1] = 5C)
001000100101011101011100 -
001001100101011101011100
001000100101011101011100
001101100101011101011100
001010100101011101011100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011101010111111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5D --> A3 (PTN[7:1] = 5D)
001001100101011101011101 -
001000100101011101011101
001001100101011101011101
001100100101011101011101
001011100101011101011101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
```


001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5D --> A3 (PTN[7:1] = 5D)
001001100101011101011101 -
001000100101011101011101
001001100101011101011101
001100100101011101011101
001011100101011101011101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5D --> A3 (PTN[7:1] = 5D)
001001100101011101011101 -
001000100101011101011101
001001100101011101011101
001100100101011101011101
001011100101011101011101 -
- 38 --> A4 (y = 3, R = 1)
00100010010101110111000 -
00100110010101110111000
00100010010101110111000
00110111010101110111000
00101011010101110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 5D --> A3 (PTN[7:1] = 5D)  
001001100101011101011101 -  
001000100101011101011101  
001001100101011101011101  
001100100101011101011101  
001011100101011101011101 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001001100101011111001000 -  
001000100101011111001000  
001001100101011111001000  
001100110101011111001000  
001011110101011111001000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5D --> A3 (PTN[7:1] = 5D)
001001100101011101011101 -
001000100101011101011101
001001100101011101011101
001100100101011101011101
001011100101011101011101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5D --> A3 (PTN[7:1] = 5D)
001001100101011101011101 -
001000100101011101011101
001001100101011101011101
001100100101011101011101
001011100101011101011101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5D --> A3 (PTN[7:1] = 5D)
001001100101011101011101 -
001000100101011101011101
001001100101011101011101
001100100101011101011101
001011100101011101011101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
```

001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5E --> A3 (PTN[7:1] = 5E)
001000100101011101011110 -
001001100101011101011110
001000100101011101011110
001101100101011101011110
001010100101011101011110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000

```
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5E --> A3 (PTN[7:1] = 5E)
001000100101011101011110 -
001001100101011101011110
001000100101011101011110
001101100101011101011110
001010100101011101011110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- 5E --> A3 (PTN[7:1] = 5E)
001000100101011101011110 -
001001100101011101011110
001000100101011101011110
001101100101011101011110
001010100101011101011110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5E --> A3 (PTN[7:1] = 5E)
```

```
001000100101011101011110 -
001001100101011101011110
001000100101011101011110
001101100101011101011110
001010100101011101011110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5E --> A3 (PTN[7:1] = 5E)
001000100101011101011110 -
001001100101011101011110
001000100101011101011110
001101100101011101011110
001010100101011101011110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5E --> A3 (PTN[7:1] = 5E)
001000100101011101011110 -
001001100101011101011110
001000100101011101011110
001101100101011101011110
001010100101011101011110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 5E --> A3 (PTN[7:1] = 5E)
001000100101011101011110 -
001001100101011101011110
001000100101011101011110
001101100101011101011110
001010100101011101011110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 5F --> A3 (PTN[7:1] = 5F)  
001001100101011101011111 -  
001000100101011101011111  
001001100101011101011111  
001100100101011101011111  
001011100101011101011111 -  
- 18 --> A4 (y = 1, R = 1)  
001000100101011110011000 -  
001001100101011110011000  
001000100101011110011000  
001101110101011110011000  
001010110101011110011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5F --> A3 (PTN[7:1] = 5F)
001001100101011101011111 -
001000100101011101011111
001001100101011101011111
001100100101011101011111
001011100101011101011111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5F --> A3 (PTN[7:1] = 5F)
001001100101011101011111 -
001000100101011101011111
001001100101011101011111
001100100101011101011111
001011100101011101011111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5F --> A3 (PTN[7:1] = 5F)
001001100101011101011111 -
001000100101011101011111
001001100101011101011111
001100100101011101011111
001011100101011101011111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5F --> A3 (PTN[7:1] = 5F)
001001100101011101011111 -
001000100101011101011111
001001100101011101011111
001100100101011101011111
001011100101011101011111 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
00110111010101111011000
00101011010101111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5F --> A3 (PTN[7:1] = 5F)
001001100101011101011111 -
001000100101011101011111
001001100101011101011111
001100100101011101011111
001011100101011101011111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
```

```
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 5F --> A3 (PTN[7:1] = 5F)
001001100101011101011111 -
001000100101011101011111
001001100101011101011111
001100100101011101011111
001011100101011101011111 -
```

```
- 78 --> A4 (y = 7, R = 1)
0010001001010111111111000 -
0010011001010111111111000
0010001001010111111111000
0011011101010111111111000
0010101101010111111111000 -
- NOP (Load 11 bits pattern)
0010011101010000000000000 -
0010001101010000000000000
0010011101010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (1)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (2)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (3)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (4)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (5)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (6)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- NOP (7)
0010001001010000000000000 -
0010011001010000000000000
0010001001010000000000000
0011011001010000000000000
0010101001010000000000000 -
- NOP (8)
0010011001010000000000000 -
0010001001010000000000000
0010011001010000000000000
0011001001010000000000000
0010111001010000000000000 -
- 60 --> A3 (PTN[7:1] = 60)
```

```
001000100101011101100000 -
001001100101011101100000
001000100101011101100000
001101100101011101100000
001010100101011101100000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 60 --> A3 (PTN[7:1] = 60)
001000100101011101100000 -
```

```
001001100101011101100000
001000100101011101100000
001101100101011101100000
001010100101011101100000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 60 --> A3 (PTN[7:1] = 60)
001000100101011101100000 -
001001100101011101100000
001000100101011101100000
001101100101011101100000
001010100101011101100000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 60 --> A3 (PTN[7:1] = 60)
001000100101011101100000 -
001001100101011101100000
001000100101011101100000
001101100101011101100000
001010100101011101100000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 60 --> A3 (PTN[7:1] = 60)  
001000100101011101100000 -  
001001100101011101100000  
001000100101011101100000  
001101100101011101100000  
001010100101011101100000 -  
- 58 --> A4 (y = 5, R = 1)  
001001100101011111011000 -  
001000100101011111011000  
001001100101011111011000  
001100110101011111011000  
001011110101011111011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 60 --> A3 (PTN[7:1] = 60)
001000100101011101100000 -
001001100101011101100000
001000100101011101100000
001101100101011101100000
001010100101011101100000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 60 --> A3 (PTN[7:1] = 60)
001000100101011101100000 -
001001100101011101100000
001000100101011101100000
001101100101011101100000
001010100101011101100000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
```

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 61 --> A3 (PTN[7:1] = 61)
001001100101011101100001 -
001000100101011101100001
001001100101011101100001
001100100101011101100001
001011100101011101100001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 61 --> A3 (PTN[7:1] = 61)
001001100101011101100001 -
001000100101011101100001
001001100101011101100001
001100100101011101100001
001011100101011101100001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 61 --> A3 (PTN[7:1] = 61)
001001100101011101100001 -
001000100101011101100001
001001100101011101100001
001100100101011101100001
001011100101011101100001 -
- 38 --> A4 (y = 3, R = 1)
00100010010101110111000 -
00100110010101110111000
00100010010101110111000
00110111010101110111000
00101011010101110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
```


001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 61 --> A3 (PTN[7:1] = 61)
001001100101011101100001 -
001000100101011101100001
001001100101011101100001
001100100101011101100001
001011100101011101100001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -

```
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 61 --> A3 (PTN[7:1] = 61)
001001100101011101100001 -
001000100101011101100001
001001100101011101100001
001100100101011101100001
001011100101011101100001 -
- 58 --> A4 (y = 5, R = 1)
```

```
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 61 --> A3 (PTN[7:1] = 61)
001001100101011101100001 -
001000100101011101100001
001001100101011101100001
001100100101011101100001
001011100101011101100001 -
- NOP (9)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 61 --> A3 (PTN[7:1] = 61)
001001100101011101100001 -
001000100101011101100001
001001100101011101100001
001100100101011101100001
001011100101011101100001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 62 --> A3 (PTN[7:1] = 62)
001000100101011101100010 -
001001100101011101100010
001000100101011101100010
001101100101011101100010
001010100101011101100010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 62 --> A3 (PTN[7:1] = 62)
001000100101011101100010 -
001001100101011101100010
001000100101011101100010
001101100101011101100010
001010100101011101100010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 62 --> A3 (PTN[7:1] = 62)
001000100101011101100010 -
001001100101011101100010
001000100101011101100010
001101100101011101100010
001010100101011101100010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 62 --> A3 (PTN[7:1] = 62)
001000100101011101100010 -
001001100101011101100010
001000100101011101100010
001101100101011101100010
001010100101011101100010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 62 --> A3 (PTN[7:1] = 62)
001000100101011101100010 -
001001100101011101100010
001000100101011101100010
001101100101011101100010
001010100101011101100010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 62 --> A3 (PTN[7:1] = 62)
001000100101011101100010 -
001001100101011101100010
001000100101011101100010
001101100101011101100010
001010100101011101100010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 62 --> A3 (PTN[7:1] = 62)
001000100101011101100010 -
001001100101011101100010
001000100101011101100010
001101100101011101100010
001010100101011101100010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 63 --> A3 (PTN[7:1] = 63)  
001001100101011101100011 -  
001000100101011101100011  
001001100101011101100011  
001100100101011101100011  
001011100101011101100011 -  
- 18 --> A4 (y = 1, R = 1)  
001000100101011110011000 -  
001001100101011110011000  
001000100101011110011000  
001101110101011110011000  
001010110101011110011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 63 --> A3 (PTN[7:1] = 63)
001001100101011101100011 -
001000100101011101100011
001001100101011101100011
001100100101011101100011
001011100101011101100011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)

001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 63 --> A3 (PTN[7:1] = 63)
001001100101011101100011 -
001000100101011101100011
001001100101011101100011
001100100101011101100011
001011100101011101100011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -

```
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 63 --> A3 (PTN[7:1] = 63)
001001100101011101100011 -
001000100101011101100011
001001100101011101100011
001100100101011101100011
001011100101011101100011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 63 --> A3 (PTN[7:1] = 63)
001001100101011101100011 -
001000100101011101100011
001001100101011101100011
001100100101011101100011
001011100101011101100011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- 63 --> A3 (PTN[7:1] = 63)  
001001100101011101100011 -  
001000100101011101100011  
001001100101011101100011  
001100100101011101100011  
001011100101011101100011 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001001100101011111101000 -  
001000100101011111101000  
001001100101011111101000  
001100110101011111101000  
001011110101011111101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 63 --> A3 (PTN[7:1] = 63)
001001100101011101100011 -
001000100101011101100011
001001100101011101100011
001100100101011101100011
001011100101011101100011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 64 --> A3 (PTN[7:1] = 64)
001000100101011101100100 -
001001100101011101100100
001000100101011101100100
001101100101011101100100
001010100101011101100100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 64 --> A3 (PTN[7:1] = 64)
001000100101011101100100 -
001001100101011101100100
001000100101011101100100
001101100101011101100100
001010100101011101100100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 64 --> A3 (PTN[7:1] = 64)
001000100101011101100100 -
001001100101011101100100
001000100101011101100100
001101100101011101100100
001010100101011101100100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 64 --> A3 (PTN[7:1] = 64)
001000100101011101100100 -
001001100101011101100100
001000100101011101100100
001101100101011101100100
001010100101011101100100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```


001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 64 --> A3 (PTN[7:1] = 64)
001000100101011101100100 -
001001100101011101100100
001000100101011101100100
001101100101011101100100
001010100101011101100100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 64 --> A3 (PTN[7:1] = 64)
001000100101011101100100 -
001001100101011101100100
001000100101011101100100
001101100101011101100100
001010100101011101100100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 64 --> A3 (PTN[7:1] = 64)
001000100101011101100100 -
001001100101011101100100
001000100101011101100100
001101100101011101100100
001010100101011101100100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -

001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 65 --> A3 (PTN[7:1] = 65)
001001100101011101100101 -
001000100101011101100101
001001100101011101100101
001100100101011101100101
001011100101011101100101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000

```
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 65 --> A3 (PTN[7:1] = 65)
001001100101011101100101 -
001000100101011101100101
001001100101011101100101
001100100101011101100101
001011100101011101100101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -
- 65 --> A3 (PTN[7:1] = 65)
001001100101011101100101 -
001000100101011101100101
001001100101011101100101
001100100101011101100101
001011100101011101100101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- 65 --> A3 (PTN[7:1] = 65)
001001100101011101100101 -
001000100101011101100101
001001100101011101100101
001100100101011101100101
001011100101011101100101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 65 --> A3 (PTN[7:1] = 65)
001001100101011101100101 -
001000100101011101100101
001001100101011101100101
001100100101011101100101
001011100101011101100101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 65 --> A3 (PTN[7:1] = 65)
001001100101011101100101 -
001000100101011101100101
001001100101011101100101
001100100101011101100101
001011100101011101100101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 65 --> A3 (PTN[7:1] = 65)
001001100101011101100101 -
001000100101011101100101
001001100101011101100101
001100100101011101100101
001011100101011101100101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 66 --> A3 (PTN[7:1] = 66)
001000100101011101100110 -
001001100101011101100110
001000100101011101100110
001101100101011101100110
001010100101011101100110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 66 --> A3 (PTN[7:1] = 66)  
001000100101011101100110 -  
001001100101011101100110  
001000100101011101100110  
001101100101011101100110  
001010100101011101100110 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001000100101011110101000 -  
001001100101011110101000  
001000100101011110101000  
001101110101011110101000  
001010110101011110101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 66 --> A3 (PTN[7:1] = 66)
001000100101011101100110 -
001001100101011101100110
001000100101011101100110
001101100101011101100110
001010100101011101100110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 66 --> A3 (PTN[7:1] = 66)
001000100101011101100110 -
001001100101011101100110
001000100101011101100110
001101100101011101100110
001010100101011101100110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 66 --> A3 (PTN[7:1] = 66)
001000100101011101100110 -
001001100101011101100110
001000100101011101100110
001101100101011101100110
001010100101011101100110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
```



```
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 66 --> A3 (PTN[7:1] = 66)
001000100101011101100110 -
001001100101011101100110
001000100101011101100110
001101100101011101100110
001010100101011101100110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
```

```
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 66 --> A3 (PTN[7:1] = 66)
001000100101011101100110 -
001001100101011101100110
001000100101011101100110
001101100101011101100110
```

```
001010100101011101100110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- 67 --> A3 (PTN[7:1] = 67)
001001100101011101100111 -
001000100101011101100111
001001100101011101100111
001100100101011101100111
001011100101011101100111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 67 --> A3 (PTN[7:1] = 67)
```

```
001001100101011101100111 -
001000100101011101100111
001001100101011101100111
001100100101011101100111
001011100101011101100111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 67 --> A3 (PTN[7:1] = 67)
001001100101011101100111 -
001000100101011101100111
001001100101011101100111
001100100101011101100111
001011100101011101100111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 67 --> A3 (PTN[7:1] = 67)
001001100101011101100111 -
001000100101011101100111
001001100101011101100111
001100100101011101100111
001011100101011101100111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 67 --> A3 (PTN[7:1] = 67)
001001100101011101100111 -
001000100101011101100111
001001100101011101100111
001100100101011101100111
001011100101011101100111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 67 --> A3 (PTN[7:1] = 67)  
001001100101011101100111 -  
001000100101011101100111  
001001100101011101100111  
001100100101011101100111  
001011100101011101100111 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001001100101011111101000 -  
001000100101011111101000  
001001100101011111101000  
001100110101011111101000  
001011110101011111101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 67 --> A3 (PTN[7:1] = 67)
001001100101011101100111 -
001000100101011101100111
001001100101011101100111
001100100101011101100111
001011100101011101100111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A3 (PTN[7:1] = 68)
001000100101011101101000 -
001001100101011101101000
001000100101011101101000
001101100101011101101000
001010100101011101101000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A3 (PTN[7:1] = 68)
001000100101011101101000 -
001001100101011101101000
001000100101011101101000
001101100101011101101000
001010100101011101101000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A3 (PTN[7:1] = 68)
001000100101011101101000 -
001001100101011101101000
001000100101011101101000
001101100101011101101000
001010100101011101101000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
```

001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A3 (PTN[7:1] = 68)
001000100101011101101000 -
001001100101011101101000
001000100101011101101000
001101100101011101101000
001010100101011101101000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
00100010010101111001000 -
00100110010101111001000
00100010010101111001000
00110111010101111001000

```
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A3 (PTN[7:1] = 68)
001000100101011101101000 -
001001100101011101101000
001000100101011101101000
001101100101011101101000
001010100101011101101000 -
```

```
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A3 (PTN[7:1] = 68)
001000100101011101101000 -
001001100101011101101000
001000100101011101101000
001101100101011101101000
001010100101011101101000 -
- NOP (9)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A3 (PTN[7:1] = 68)
001000100101011101101000 -
001001100101011101101000
001000100101011101101000
001101100101011101101000
001010100101011101101000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 69 --> A3 (PTN[7:1] = 69)
001001100101011101101001 -
001000100101011101101001
001001100101011101101001
001100100101011101101001
001011100101011101101001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 69 --> A3 (PTN[7:1] = 69)
001001100101011101101001 -
001000100101011101101001
001001100101011101101001
001100100101011101101001
001011100101011101101001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 69 --> A3 (PTN[7:1] = 69)  
001001100101011101101001 -  
001000100101011101101001  
001001100101011101101001  
001100100101011101101001  
001011100101011101101001 -  
- 38 --> A4 (y = 3, R = 1)  
001000100101011110111000 -  
001001100101011110111000  
001000100101011110111000  
001101110101011110111000  
001010110101011110111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 69 --> A3 (PTN[7:1] = 69)
001001100101011101101001 -
001000100101011101101001
001001100101011101101001
001100100101011101101001
001011100101011101101001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 69 --> A3 (PTN[7:1] = 69)
001001100101011101101001 -
001000100101011101101001
001001100101011101101001
001100100101011101101001
001011100101011101101001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 69 --> A3 (PTN[7:1] = 69)
001001100101011101101001 -
001000100101011101101001
001001100101011101101001
001100100101011101101001
001011100101011101101001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 69 --> A3 (PTN[7:1] = 69)
001001100101011101101001 -
001000100101011101101001
001001100101011101101001
001100100101011101101001
001011100101011101101001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6A --> A3 (PTN[7:1] = 6A)
001000100101011101101010 -
001001100101011101101010
001000100101011101101010
001101100101011101101010
001010100101011101101010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6A --> A3 (PTN[7:1] = 6A)
001000100101011101101010 -
001001100101011101101010
001000100101011101101010
001101100101011101101010
001010100101011101101010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -

```
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6A --> A3 (PTN[7:1] = 6A)
001000100101011101101010 -
001001100101011101101010
001000100101011101101010
001101100101011101101010
001010100101011101101010 -
- 38 --> A4 (y = 3, R = 1)
```

```
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6A --> A3 (PTN[7:1] = 6A)
001000100101011101101010 -
001001100101011101101010
001000100101011101101010
001101100101011101101010
001010100101011101101010 -
- NOP (9)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6A --> A3 (PTN[7:1] = 6A)
001000100101011101101010 -
001001100101011101101010
001000100101011101101010
001101100101011101101010
001010100101011101101010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 6A --> A3 (PTN[7:1] = 6A)
001000100101011101101010 -
001001100101011101101010
001000100101011101101010
001101100101011101101010
001010100101011101101010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6A --> A3 (PTN[7:1] = 6A)
001000100101011101101010 -
001001100101011101101010
001000100101011101101010
001101100101011101101010
001010100101011101101010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
```

```
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6B --> A3 (PTN[7:1] = 6B)
001001100101011101101011 -
001000100101011101101011
001001100101011101101011
001100100101011101101011
001011100101011101101011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6B --> A3 (PTN[7:1] = 6B)
001001100101011101101011 -
001000100101011101101011
001001100101011101101011
001100100101011101101011
001011100101011101101011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6B --> A3 (PTN[7:1] = 6B)
001001100101011101101011 -
001000100101011101101011
001001100101011101101011
001100100101011101101011
001011100101011101101011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6B --> A3 (PTN[7:1] = 6B)
001001100101011101101011 -
001000100101011101101011
001001100101011101101011
001100100101011101101011
001011100101011101101011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6B --> A3 (PTN[7:1] = 6B)
001001100101011101101011 -
001000100101011101101011
001001100101011101101011
001100100101011101101011
001011100101011101101011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 6B --> A3 (PTN[7:1] = 6B)  
001001100101011101101011 -  
001000100101011101101011  
001001100101011101101011  
001100100101011101101011  
001011100101011101101011 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001001100101011111101000 -  
001000100101011111101000  
001001100101011111101000  
001100110101011111101000  
001011110101011111101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6B --> A3 (PTN[7:1] = 6B)
001001100101011101101011 -
001000100101011101101011
001001100101011101101011
001100100101011101101011
001011100101011101101011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
```


001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6C --> A3 (PTN[7:1] = 6C)
001000100101011101101100 -
001001100101011101101100
001000100101011101101100
001101100101011101101100
001010100101011101101100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -

001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6C --> A3 (PTN[7:1] = 6C)
001000100101011101101100 -
001001100101011101101100
001000100101011101101100
001101100101011101101100
001010100101011101101100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 6C --> A3 (PTN[7:1] = 6C)
001000100101011101101100 -
001001100101011101101100
001000100101011101101100
001101100101011101101100
001010100101011101101100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- 6C --> A3 (PTN[7:1] = 6C)  
001000100101011101101100 -  
001001100101011101101100  
001000100101011101101100  
001101100101011101101100  
001010100101011101101100 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001000100101011111001000 -  
001001100101011111001000  
001000100101011111001000  
001101110101011111001000  
001010110101011111001000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6C --> A3 (PTN[7:1] = 6C)
001000100101011101101100 -
001001100101011101101100
001000100101011101101100
001101100101011101101100
001010100101011101101100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6C --> A3 (PTN[7:1] = 6C)
001000100101011101101100 -
001001100101011101101100
001000100101011101101100
001101100101011101101100
001010100101011101101100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6C --> A3 (PTN[7:1] = 6C)
001000100101011101101100 -
001001100101011101101100
001000100101011101101100
001101100101011101101100
001010100101011101101100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6D --> A3 (PTN[7:1] = 6D)
001001100101011101101101 -
001000100101011101101101
001001100101011101101101
001100100101011101101101
001011100101011101101101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6D --> A3 (PTN[7:1] = 6D)
001001100101011101101101 -
001000100101011101101101
001001100101011101101101
001100100101011101101101
001011100101011101101101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6D --> A3 (PTN[7:1] = 6D)
001001100101011101101101 -
001000100101011101101101
001001100101011101101101
001100100101011101101101
001011100101011101101101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6D --> A3 (PTN[7:1] = 6D)
001001100101011101101101 -
001000100101011101101101
001001100101011101101101
001100100101011101101101
001011100101011101101101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6D --> A3 (PTN[7:1] = 6D)
001001100101011101101101 -
001000100101011101101101
001001100101011101101101
001100100101011101101101
001011100101011101101101 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
00110111010101111011000
00101011010101111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -

001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6D --> A3 (PTN[7:1] = 6D)
001001100101011101101101 -
001000100101011101101101
001001100101011101101101
001100100101011101101101
001011100101011101101101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000

```
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6D --> A3 (PTN[7:1] = 6D)
001001100101011101101101 -
001000100101011101101101
001001100101011101101101
```

```
001100100101011101101101
001011100101011101101101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- 6E --> A3 (PTN[7:1] = 6E)  
001000100101011101101110 -  
001001100101011101101110  
001000100101011101101110  
001101100101011101101110  
001010100101011101101110 -  
- 18 --> A4 (y = 1, R = 1)  
001001100101011110011000 -  
001000100101011110011000  
001001100101011110011000  
001100110101011110011000  
001011110101011110011000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- 6E --> A3 (PTN[7:1] = 6E)
001000100101011101101110 -
001001100101011101101110
001000100101011101101110
001101100101011101101110
001010100101011101101110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6E --> A3 (PTN[7:1] = 6E)
001000100101011101101110 -
001001100101011101101110
001000100101011101101110
001101100101011101101110
001010100101011101101110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
```

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6E --> A3 (PTN[7:1] = 6E)
001000100101011101101110 -
001001100101011101101110
001000100101011101101110
001101100101011101101110
001010100101011101101110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6E --> A3 (PTN[7:1] = 6E)
001000100101011101101110 -
001001100101011101101110
001000100101011101101110
001101100101011101101110
001010100101011101101110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 6E --> A3 (PTN[7:1] = 6E)
001000100101011101101110 -
001001100101011101101110
001000100101011101101110
001101100101011101101110
001010100101011101101110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 6E --> A3 (PTN[7:1] = 6E)  
001000100101011101101110 -  
001001100101011101101110  
001000100101011101101110  
001101100101011101101110  
001010100101011101101110 -  
- 78 --> A4 (y = 7, R = 1)  
001001100101011111111000 -  
001000100101011111111000  
001001100101011111111000  
001100110101011111111000  
001011110101011111111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6F --> A3 (PTN[7:1] = 6F)
001001100101011101101111 -
001000100101011101101111
001001100101011101101111
001100100101011101101111
001011100101011101101111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6F --> A3 (PTN[7:1] = 6F)
001001100101011101101111 -
001000100101011101101111
001001100101011101101111
001100100101011101101111
001011100101011101101111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6F --> A3 (PTN[7:1] = 6F)
001001100101011101101111 -
001000100101011101101111
001001100101011101101111
001100100101011101101111
001011100101011101101111 -
- 38 --> A4 (y = 3, R = 1)
00100010010101110111000 -
00100110010101110111000
00100010010101110111000
00110111010101110111000
00101011010101110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
```

001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6F --> A3 (PTN[7:1] = 6F)
001001100101011101101111 -
001000100101011101101111
001001100101011101101111
001100100101011101101111
001011100101011101101111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000

```
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6F --> A3 (PTN[7:1] = 6F)
001001100101011101101111 -
001000100101011101101111
001001100101011101101111
001100100101011101101111
```

```
001011100101011101101111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6F --> A3 (PTN[7:1] = 6F)
001001100101011101101111 -
001000100101011101101111
001001100101011101101111
001100100101011101101111
001011100101011101101111 -
```

```
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 6F --> A3 (PTN[7:1] = 6F)
001001100101011101101111 -
001000100101011101101111
001001100101011101101111
001100100101011101101111
001011100101011101101111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 70 --> A3 (PTN[7:1] = 70)
001000100101011101110000 -
001001100101011101110000
001000100101011101110000
001101100101011101110000
001010100101011101110000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 70 --> A3 (PTN[7:1] = 70)
001000100101011101110000 -
001001100101011101110000
001000100101011101110000
001101100101011101110000
001010100101011101110000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 70 --> A3 (PTN[7:1] = 70)
001000100101011101110000 -
001001100101011101110000
001000100101011101110000
001101100101011101110000
001010100101011101110000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 70 --> A3 (PTN[7:1] = 70)  
001000100101011101110000 -  
001001100101011101110000  
001000100101011101110000  
001101100101011101110000  
001010100101011101110000 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001000100101011111001000 -  
001001100101011111001000  
001000100101011111001000  
001101110101011111001000  
001010110101011111001000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 70 --> A3 (PTN[7:1] = 70)
001000100101011101110000 -
001001100101011101110000
001000100101011101110000
001101100101011101110000
001010100101011101110000 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 70 --> A3 (PTN[7:1] = 70)
001000100101011101110000 -
001001100101011101110000
001000100101011101110000
001101100101011101110000
001010100101011101110000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 70 --> A3 (PTN[7:1] = 70)
001000100101011101110000 -
001001100101011101110000
001000100101011101110000
001101100101011101110000
001010100101011101110000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 71 --> A3 (PTN[7:1] = 71)
001001100101011101110001 -
001000100101011101110001
001001100101011101110001
001100100101011101110001
001011100101011101110001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
```

001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 71 --> A3 (PTN[7:1] = 71)
001001100101011101110001 -
001000100101011101110001
001001100101011101110001
001100100101011101110001
001011100101011101110001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000


```
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 71 --> A3 (PTN[7:1] = 71)
001001100101011101110001 -
001000100101011101110001
001001100101011101110001
001100100101011101110001
001011100101011101110001 -
```

```
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 71 --> A3 (PTN[7:1] = 71)
001001100101011101110001 -
001000100101011101110001
001001100101011101110001
001100100101011101110001
001011100101011101110001 -
- NOP (9)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 71 --> A3 (PTN[7:1] = 71)
001001100101011101110001 -
001000100101011101110001
001001100101011101110001
001100100101011101110001
001011100101011101110001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 71 --> A3 (PTN[7:1] = 71)
001001100101011101110001 -
001000100101011101110001
001001100101011101110001
001100100101011101110001
001011100101011101110001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 71 --> A3 (PTN[7:1] = 71)
001001100101011101110001 -
001000100101011101110001
001001100101011101110001
001100100101011101110001
001011100101011101110001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 72 --> A3 (PTN[7:1] = 72)
001000100101011101110010 -
001001100101011101110010
001000100101011101110010
001101100101011101110010
001010100101011101110010 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 72 --> A3 (PTN[7:1] = 72)
001000100101011101110010 -
001001100101011101110010
001000100101011101110010
001101100101011101110010
001010100101011101110010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)


```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 72 --> A3 (PTN[7:1] = 72)
001000100101011101110010 -
001001100101011101110010
001000100101011101110010
001101100101011101110010
001010100101011101110010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 72 --> A3 (PTN[7:1] = 72)
001000100101011101110010 -
001001100101011101110010
001000100101011101110010
001101100101011101110010
001010100101011101110010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 72 --> A3 (PTN[7:1] = 72)
001000100101011101110010 -
001001100101011101110010
001000100101011101110010
001101100101011101110010
001010100101011101110010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 72 --> A3 (PTN[7:1] = 72)
001000100101011101110010 -
001001100101011101110010
001000100101011101110010
001101100101011101110010
001010100101011101110010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -
00100110010101111101000
00100010010101111101000
00110111010101111101000
00101011010101111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
```

001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 72 --> A3 (PTN[7:1] = 72)
001000100101011101110010 -
001001100101011101110010
001000100101011101110010
001101100101011101110010
001010100101011101110010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -

```
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 73 --> A3 (PTN[7:1] = 73)
001001100101011101110011 -
001000100101011101110011
001001100101011101110011
001100100101011101110011
001011100101011101110011 -
- 18 --> A4 (y = 1, R = 1)
```

```
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 73 --> A3 (PTN[7:1] = 73)
001001100101011101110011 -
001000100101011101110011
001001100101011101110011
001100100101011101110011
001011100101011101110011 -
- NOP (9)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 73 --> A3 (PTN[7:1] = 73)
001001100101011101110011 -
001000100101011101110011
001001100101011101110011
001100100101011101110011
001011100101011101110011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 73 --> A3 (PTN[7:1] = 73)
001001100101011101110011 -
001000100101011101110011
001001100101011101110011
001100100101011101110011
001011100101011101110011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 73 --> A3 (PTN[7:1] = 73)
001001100101011101110011 -
001000100101011101110011
001001100101011101110011
001100100101011101110011
001011100101011101110011 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 73 --> A3 (PTN[7:1] = 73)
001001100101011101110011 -
001000100101011101110011
001001100101011101110011
001100100101011101110011
001011100101011101110011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 73 --> A3 (PTN[7:1] = 73)
001001100101011101110011 -
001000100101011101110011
001001100101011101110011
001100100101011101110011
001011100101011101110011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 74 --> A3 (PTN[7:1] = 74)
001000100101011101110100 -
001001100101011101110100
001000100101011101110100
001101100101011101110100
001010100101011101110100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 74 --> A3 (PTN[7:1] = 74)
001000100101011101110100 -
001001100101011101110100
001000100101011101110100
001101100101011101110100
001010100101011101110100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 74 --> A3 (PTN[7:1] = 74)
001000100101011101110100 -
001001100101011101110100
001000100101011101110100
001101100101011101110100
001010100101011101110100 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 74 --> A3 (PTN[7:1] = 74)  
001000100101011101110100 -  
001001100101011101110100  
001000100101011101110100  
001101100101011101110100  
001010100101011101110100 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001000100101011111001000 -  
001001100101011111001000  
001000100101011111001000  
001101110101011111001000  
001010110101011111001000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 74 --> A3 (PTN[7:1] = 74)
001000100101011101110100 -
001001100101011101110100
001000100101011101110100
001101100101011101110100
001010100101011101110100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
```

001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 74 --> A3 (PTN[7:1] = 74)
001000100101011101110100 -
001001100101011101110100
001000100101011101110100
001101100101011101110100
001010100101011101110100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100010010101111101000 -

```
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 74 --> A3 (PTN[7:1] = 74)
001000100101011101110100 -
001001100101011101110100
```

```
001000100101011101110100
001101100101011101110100
001010100101011101110100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- 75 --> A3 (PTN[7:1] = 75)
001001100101011101110101 -
001000100101011101110101
001001100101011101110101
001100100101011101110101
001011100101011101110101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- 75 --> A3 (PTN[7:1] = 75)  
001001100101011101110101 -  
001000100101011101110101  
001001100101011101110101  
001100100101011101110101  
001011100101011101110101 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001001100101011110101000 -  
001000100101011110101000  
001001100101011110101000  
001100110101011110101000  
001011110101011110101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 75 --> A3 (PTN[7:1] = 75)
001001100101011101110101 -
001000100101011101110101
001001100101011101110101
001100100101011101110101
001011100101011101110101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 75 --> A3 (PTN[7:1] = 75)
001001100101011101110101 -
001000100101011101110101
001001100101011101110101
001100100101011101110101
001011100101011101110101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 75 --> A3 (PTN[7:1] = 75)
001001100101011101110101 -
001000100101011101110101
001001100101011101110101
001100100101011101110101
001011100101011101110101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
```

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 75 --> A3 (PTN[7:1] = 75)
001001100101011101110101 -
001000100101011101110101
001001100101011101110101
001100100101011101110101
001011100101011101110101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 75 --> A3 (PTN[7:1] = 75)
001001100101011101110101 -
001000100101011101110101
001001100101011101110101
001100100101011101110101
001011100101011101110101 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 76 --> A3 (PTN[7:1] = 76)
001000100101011101110110 -
001001100101011101110110
001000100101011101110110
001101100101011101110110
001010100101011101110110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -

- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 76 --> A3 (PTN[7:1] = 76)
001000100101011101110110 -
001001100101011101110110
001000100101011101110110
001101100101011101110110
001010100101011101110110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 76 --> A3 (PTN[7:1] = 76)
001000100101011101110110 -
001001100101011101110110
001000100101011101110110
001101100101011101110110
001010100101011101110110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -

```
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 76 --> A3 (PTN[7:1] = 76)
001000100101011101110110 -
001001100101011101110110
001000100101011101110110
001101100101011101110110
001010100101011101110110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
```



```
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 76 --> A3 (PTN[7:1] = 76)
001000100101011101110110 -
001001100101011101110110
001000100101011101110110
```

```
001101100101011101110110
001010100101011101110110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 76 --> A3 (PTN[7:1] = 76)
001000100101011101110110 -
001001100101011101110110
001000100101011101110110
001101100101011101110110
```

```
001010100101011101110110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
```

```
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 76 --> A3 (PTN[7:1] = 76)
001000100101011101110110 -
001001100101011101110110
001000100101011101110110
001101100101011101110110
001010100101011101110110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
```

001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 77 --> A3 (PTN[7:1] = 77)
001001100101011101110111 -
001000100101011101110111
001001100101011101110111
001100100101011101110111
001011100101011101110111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -

001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 77 --> A3 (PTN[7:1] = 77)
001001100101011101110111 -
001000100101011101110111
001001100101011101110111
001100100101011101110111
001011100101011101110111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000

001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 77 --> A3 (PTN[7:1] = 77)
001001100101011101110111 -
001000100101011101110111
001001100101011101110111
001100100101011101110111
001011100101011101110111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000

```
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 77 --> A3 (PTN[7:1] = 77)
001001100101011101110111 -
001000100101011101110111
001001100101011101110111
001100100101011101110111
001011100101011101110111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 77 --> A3 (PTN[7:1] = 77)  
001001100101011101110111 -  
001000100101011101110111  
001001100101011101110111  
001100100101011101110111  
001011100101011101110111 -  
- 58 --> A4 (y = 5, R = 1)  
001000100101011111011000 -  
001001100101011111011000  
001000100101011111011000  
001101110101011111011000  
001010110101011111011000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 77 --> A3 (PTN[7:1] = 77)
001001100101011101110111 -
001000100101011101110111
001001100101011101110111
001100100101011101110111
001011100101011101110111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 77 --> A3 (PTN[7:1] = 77)
001001100101011101110111 -
001000100101011101110111
001001100101011101110111
001100100101011101110111
001011100101011101110111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 78 --> A3 (PTN[7:1] = 78)
001000100101011101111000 -
001001100101011101111000
001000100101011101111000
001101100101011101111000
001010100101011101111000 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
```

```
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 78 --> A3 (PTN[7:1] = 78)
001000100101011101111000 -
001001100101011101111000
001000100101011101111000
001101100101011101111000
001010100101011101111000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
```

```
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 78 --> A3 (PTN[7:1] = 78)
001000100101011101111000 -
001001100101011101111000
001000100101011101111000
001101100101011101111000
```

```
001010100101011101111000 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 78 --> A3 (PTN[7:1] = 78)
001000100101011101111000 -
001001100101011101111000
001000100101011101111000
001101100101011101111000
001010100101011101111000 -
```

```
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
```



```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 78 --> A3 (PTN[7:1] = 78)
001000100101011101111000 -
001001100101011101111000
001000100101011101111000
001101100101011101111000
001010100101011101111000 -
- 58 --> A4 (y = 5, R = 1)
00100110010101111011000 -
00100010010101111011000
00100110010101111011000
00110011010101111011000
00101111010101111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 78 --> A3 (PTN[7:1] = 78)
001000100101011101111000 -
001001100101011101111000
001000100101011101111000
001101100101011101111000
001010100101011101111000 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 78 --> A3 (PTN[7:1] = 78)
001000100101011101111000 -
001001100101011101111000
001000100101011101111000
001101100101011101111000
001010100101011101111000 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 79 --> A3 (PTN[7:1] = 79)
001001100101011101111001 -
001000100101011101111001
001001100101011101111001
001100100101011101111001
001011100101011101111001 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 79 --> A3 (PTN[7:1] = 79)  
001001100101011101111001 -  
001000100101011101111001  
001001100101011101111001  
001100100101011101111001  
001011100101011101111001 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001001100101011110101000 -  
001000100101011110101000  
001001100101011110101000  
001100110101011110101000  
001011110101011110101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 79 --> A3 (PTN[7:1] = 79)
001001100101011101111001 -
001000100101011101111001
001001100101011101111001
001100100101011101111001
001011100101011101111001 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 79 --> A3 (PTN[7:1] = 79)
001001100101011101111001 -
001000100101011101111001
001001100101011101111001
001100100101011101111001
001011100101011101111001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 79 --> A3 (PTN[7:1] = 79)
001001100101011101111001 -
001000100101011101111001
001001100101011101111001
001100100101011101111001
001011100101011101111001 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 79 --> A3 (PTN[7:1] = 79)
001001100101011101111001 -
001000100101011101111001
001001100101011101111001
001100100101011101111001
001011100101011101111001 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
00100110010101111101000 -
00100010010101111101000
00100110010101111101000
00110011010101111101000
00101111010101111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 79 --> A3 (PTN[7:1] = 79)
001001100101011101111001 -
001000100101011101111001
001001100101011101111001
001100100101011101111001
001011100101011101111001 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
```

```
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7A --> A3 (PTN[7:1] = 7A)
001000100101011101111010 -
001001100101011101111010
001000100101011101111010
001101100101011101111010
001010100101011101111010 -
```

```
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7A --> A3 (PTN[7:1] = 7A)
001000100101011101111010 -
001001100101011101111010
001000100101011101111010
001101100101011101111010
001010100101011101111010 -
- NOP (9)
```

```
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
```

```
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7A --> A3 (PTN[7:1] = 7A)
001000100101011101111010 -
001001100101011101111010
001000100101011101111010
001101100101011101111010
001010100101011101111010 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7A --> A3 (PTN[7:1] = 7A)
001000100101011101111010 -
001001100101011101111010
001000100101011101111010
001101100101011101111010
001010100101011101111010 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7A --> A3 (PTN[7:1] = 7A)
001000100101011101111010 -
001001100101011101111010
001000100101011101111010
001101100101011101111010
001010100101011101111010 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 7A --> A3 (PTN[7:1] = 7A)  
001000100101011101111010 -  
001001100101011101111010  
001000100101011101111010  
001101100101011101111010  
001010100101011101111010 -  
- NOP (9)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 68 --> A4 (y = 6, R = 1)  
001000100101011111101000 -  
001001100101011111101000  
001000100101011111101000  
001101110101011111101000  
001010110101011111101000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

- NOP (5)
001000100101000000000000 -
001001100101000000000000 -
001000100101000000000000 -
001101100101000000000000 -
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000 -
001000100101000000000000 -
001101100101000000000000 -
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- 7A --> A3 (PTN[7:1] = 7A)
001000100101011101111010 -
001001100101011101111010 -
001000100101011101111010 -
001101100101011101111010 -
001010100101011101111010 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000 -
001001100101011111111000 -
001100110101011111111000 -
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000 -
001000110101000000000000 -
001101100101000000000000 -
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000 -
001000100101000000000000 -
001101100101000000000000 -
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000 -
001001100101000000000000 -
001100100101000000000000 -
001011100101000000000000 -
- NOP (4)

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7B --> A3 (PTN[7:1] = 7B)
001001100101011101111011 -
001000100101011101111011
001001100101011101111011
001100100101011101111011
001011100101011101111011 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -

001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7B --> A3 (PTN[7:1] = 7B)
001001100101011101111011 -
001000100101011101111011
001001100101011101111011
001100100101011101111011
001011100101011101111011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000

001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7B --> A3 (PTN[7:1] = 7B)
001001100101011101111011 -
001000100101011101111011
001001100101011101111011
001100100101011101111011
001011100101011101111011 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7B --> A3 (PTN[7:1] = 7B)
001001100101011101111011 -
001000100101011101111011
001001100101011101111011
001100100101011101111011
001011100101011101111011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7B --> A3 (PTN[7:1] = 7B)
001001100101011101111011 -
001000100101011101111011
001001100101011101111011
001100100101011101111011
001011100101011101111011 -
- 58 --> A4 (y = 5, R = 1)
00100010010101111011000 -
00100110010101111011000
00100010010101111011000
00110111010101111011000
00101011010101111011000 -

```
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7B --> A3 (PTN[7:1] = 7B)
001001100101011101111011 -
001000100101011101111011
001001100101011101111011
001100100101011101111011
001011100101011101111011 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
```



```
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7B --> A3 (PTN[7:1] = 7B)
00100110010101110111011 -
```

```
001000100101011101111011
001001100101011101111011
001100100101011101111011
001011100101011101111011 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
```

```
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7C --> A3 (PTN[7:1] = 7C)
001000100101011101111100 -
001001100101011101111100
001000100101011101111100
001101100101011101111100
001010100101011101111100 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
```

```
001100100101000000000000
001011100101000000000000 -
- 7C --> A3 (PTN[7:1] = 7C)
001000100101011101111100 -
001001100101011101111100
001000100101011101111100
001101100101011101111100
001010100101011101111100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```

```
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (8)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- 7C --> A3 (PTN[7:1] = 7C)  
001000100101011101111100 -  
001001100101011101111100  
001000100101011101111100  
001101100101011101111100  
001010100101011101111100 -  
- 38 --> A4 (y = 3, R = 1)  
001001100101011110111000 -  
001000100101011110111000  
001001100101011110111000  
001100110101011110111000  
001011110101011110111000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7C --> A3 (PTN[7:1] = 7C)
001000100101011101111100 -
001001100101011101111100
001000100101011101111100
001101100101011101111100
001010100101011101111100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
```

001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7C --> A3 (PTN[7:1] = 7C)
001000100101011101111100 -
001001100101011101111100
001000100101011101111100
001101100101011101111100
001010100101011101111100 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7C --> A3 (PTN[7:1] = 7C)
001000100101011101111100 -
001001100101011101111100
001000100101011101111100
001101100101011101111100
001010100101011101111100 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
```


001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7C --> A3 (PTN[7:1] = 7C)
001000100101011101111100 -
001001100101011101111100
001000100101011101111100
001101100101011101111100
001010100101011101111100 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000

```
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7D --> A3 (PTN[7:1] = 7D)
001001100101011101111101 -
001000100101011101111101
001001100101011101111101
001100100101011101111101
001011100101011101111101 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

```
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (7)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 7D --> A3 (PTN[7:1] = 7D)  
001001100101011101111101 -  
001000100101011101111101  
001001100101011101111101  
001100100101011101111101  
001011100101011101111101 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 28 --> A4 (y = 2, R = 1)  
001001100101011110101000 -  
001000100101011110101000  
001001100101011110101000  
001100110101011110101000  
001011110101011110101000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -
```

```
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7D --> A3 (PTN[7:1] = 7D)
001001100101011101111101 -
001000100101011101111101
001001100101011101111101
001100100101011101111101
001011100101011101111101 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
```

001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7D --> A3 (PTN[7:1] = 7D)
001001100101011101111101 -
001000100101011101111101
001001100101011101111101
001100100101011101111101
001011100101011101111101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001001100101011111001000 -

```
001000100101011111001000
001001100101011111001000
001100110101011111001000
001011110101011111001000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7D --> A3 (PTN[7:1] = 7D)
001001100101011101111101 -
001000100101011101111101
```

```
001001100101011101111101
001100100101011101111101
001011100101011101111101 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7D --> A3 (PTN[7:1] = 7D)
001001100101011101111101 -
001000100101011101111101
001001100101011101111101
```

```
001100100101011101111101
001011100101011101111101 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
```



```
001011100101000000000000 -  
- NOP (8)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 7D --> A3 (PTN[7:1] = 7D)  
001001100101011101111101 -  
001000100101011101111101  
001001100101011101111101  
001100100101011101111101  
001011100101011101111101 -  
- 78 --> A4 (y = 7, R = 1)  
001000100101011111111000 -  
001001100101011111111000  
001000100101011111111000  
001101110101011111111000  
001010110101011111111000 -  
- NOP (Load 11 bits pattern)  
001001110101000000000000 -  
001000110101000000000000  
001001110101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (1)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (2)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (3)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (4)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (5)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (6)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7E --> A3 (PTN[7:1] = 7E)
001000100101011101111110 -
001001100101011101111110
001000100101011101111110
001101100101011101111110
001010100101011101111110 -
- 18 --> A4 (y = 1, R = 1)
001001100101011110011000 -
001000100101011110011000
001001100101011110011000
001100110101011110011000
001011110101011110011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7E --> A3 (PTN[7:1] = 7E)
001000100101011101111110 -
001001100101011101111110
001000100101011101111110
001101100101011101111110
001010100101011101111110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001000100101011110101000 -
001001100101011110101000
001000100101011110101000
001101110101011110101000
001010110101011110101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7E --> A3 (PTN[7:1] = 7E)
001000100101011101111110 -
001001100101011101111110
001000100101011101111110
001101100101011101111110
001010100101011101111110 -
- 38 --> A4 (y = 3, R = 1)
001001100101011110111000 -
001000100101011110111000
001001100101011110111000
001100110101011110111000
001011110101011110111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
```

```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7E --> A3 (PTN[7:1] = 7E)
001000100101011101111110 -
001001100101011101111110
001000100101011101111110
001101100101011101111110
001010100101011101111110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 48 --> A4 (y = 4, R = 1)
001000100101011111001000 -
001001100101011111001000
001000100101011111001000
001101110101011111001000
001010110101011111001000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
```

```
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7E --> A3 (PTN[7:1] = 7E)
001000100101011101111110 -
001001100101011101111110
001000100101011101111110
001101100101011101111110
001010100101011101111110 -
- 58 --> A4 (y = 5, R = 1)
001001100101011111011000 -
001000100101011111011000
001001100101011111011000
001100110101011111011000
001011110101011111011000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
```

001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7E --> A3 (PTN[7:1] = 7E)
001000100101011101111110 -
001001100101011101111110
001000100101011101111110
001101100101011101111110
001010100101011101111110 -
- NOP (9)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001000100101011111101000 -
001001100101011111101000
001000100101011111101000
001101110101011111101000
001010110101011111101000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -

```
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- 7E --> A3 (PTN[7:1] = 7E)
001000100101011101111110 -
001001100101011101111110
001000100101011101111110
001101100101011101111110
001010100101011101111110 -
- 78 --> A4 (y = 7, R = 1)
001001100101011111111000 -
001000100101011111111000
001001100101011111111000
001100110101011111111000
001011110101011111111000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
```


001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7F --> A3 (PTN[7:1] = 7F)
001001100101011101111111 -
001000100101011101111111
001001100101011101111111
001100100101011101111111
001011100101011101111111 -
- 18 --> A4 (y = 1, R = 1)
001000100101011110011000 -
001001100101011110011000
001000100101011110011000
001101110101011110011000
001010110101011110011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -

```
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7F --> A3 (PTN[7:1] = 7F)
001001100101011101111111 -
001000100101011101111111
001001100101011101111111
001100100101011101111111
001011100101011101111111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 28 --> A4 (y = 2, R = 1)
001001100101011110101000 -
001000100101011110101000
```

```
001001100101011110101000
001100110101011110101000
001011110101011110101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7F --> A3 (PTN[7:1] = 7F)
001001100101011101111111 -
001000100101011101111111
001001100101011101111111
```

```
001100100101011101111111
001011100101011101111111 -
- 38 --> A4 (y = 3, R = 1)
001000100101011110111000 -
001001100101011110111000
001000100101011110111000
001101110101011110111000
001010110101011110111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7F --> A3 (PTN[7:1] = 7F)
001001100101011101111111 -
001000100101011101111111
001001100101011101111111
001100100101011101111111
```

```
001011100101011101111111 -  
- NOP (9)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- 48 --> A4 (y = 4, R = 1)  
001001100101011111001000 -  
001000100101011111001000  
001001100101011111001000  
001100110101011111001000  
001011110101011111001000 -  
- NOP (Load 11 bits pattern)  
001000110101000000000000 -  
001001110101000000000000  
001000110101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (1)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (2)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (3)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (4)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (5)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -  
- NOP (6)  
001000100101000000000000 -  
001001100101000000000000  
001000100101000000000000  
001101100101000000000000  
001010100101000000000000 -  
- NOP (7)  
001001100101000000000000 -  
001000100101000000000000  
001001100101000000000000  
001100100101000000000000  
001011100101000000000000 -
```

```
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7F --> A3 (PTN[7:1] = 7F)
001001100101011101111111 -
001000100101011101111111
001001100101011101111111
001100100101011101111111
001011100101011101111111 -
- 58 --> A4 (y = 5, R = 1)
001000100101011111011000 -
001001100101011111011000
001000100101011111011000
001101110101011111011000
001010110101011111011000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
```

```
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7F --> A3 (PTN[7:1] = 7F)
001001100101011101111111 -
001000100101011101111111
001001100101011101111111
001100100101011101111111
001011100101011101111111 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 68 --> A4 (y = 6, R = 1)
001001100101011111101000 -
001000100101011111101000
001001100101011111101000
001100110101011111101000
001011110101011111101000 -
- NOP (Load 11 bits pattern)
001000110101000000000000 -
001001110101000000000000
001000110101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (1)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (2)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (3)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (4)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (5)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (6)
001000100101000000000000 -
```

```
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (7)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (8)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- 7F --> A3 (PTN[7:1] = 7F)
001001100101011101111111 -
001000100101011101111111
001001100101011101111111
001100100101011101111111
001011100101011101111111 -
- 78 --> A4 (y = 7, R = 1)
001000100101011111111000 -
001001100101011111111000
001000100101011111111000
001101110101011111111000
001010110101011111111000 -
- NOP (Load 11 bits pattern)
001001110101000000000000 -
001000110101000000000000
001001110101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (1)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (2)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (3)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (4)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (5)
001000100101000000000000 -
001001100101000000000000
```



```
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (6)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (7)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (8)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (9)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001010100101000000000000 -
- NOP (10)
001001100101000000000000 -
001000100101000000000000
001001100101000000000000
001100100101000000000000
001011100101000000000000 -
- NOP (11)
001000100101000000000000 -
001001100101000000000000
001000100101000000000000
001101100101000000000000
001000100101000000000000 -
- Dump ends
010000100000000000000000 -
-----
-OCWICACCCCKKKKKKGPPPP
-ENENLCHHHHH1234567PDDDD
-/T CK/64321/////////4321
```