Test Cases for Cache Simulator:

Test Case:

Configuration:

```
256
32
1
FIFO
WB
```

Access sequences:

```
R: 0x1234
W: 0x5678
R: 0x1234
```

Output:

```
Address: 0x00001234, Set: 0x1, Miss, Tag: 0x000012
Address: 0x00005678, Set: 0x3, Miss, Tag: 0x000056
Address: 0x00001234, Set: 0x1, Hit, Tag: 0x000012
```

Test Case:

Configuration:

```
8192
256
16
RANDOM
WT
```

Access sequences:

```
R: 0xAABB
W: 0xCCDD
R: 0xEEFF
W: 0x1122
```

```
R: 0xAABB
R: 0x3344
W: 0xCCDD
R: 0xAABB
W: 0xEEFF
R: 0x1122
R: 0x3344
```

Output:

```
Address: 0x0000aabb, Set: 0x0, Miss, Tag: 0x000055
Address: 0x0000ccdd, Set: 0x0, Miss, Tag: 0x000066
Address: 0x0000eeff, Set: 0x0, Miss, Tag: 0x000077
Address: 0x00001122, Set: 0x1, Miss, Tag: 0x000008
Address: 0x0000aabb, Set: 0x0, Hit, Tag: 0x000055
Address: 0x00003344, Set: 0x1, Miss, Tag: 0x000019
Address: 0x0000ccdd, Set: 0x0, Miss, Tag: 0x000066
Address: 0x0000aabb, Set: 0x0, Hit, Tag: 0x000055
Address: 0x0000eeff, Set: 0x0, Hit, Tag: 0x000077
Address: 0x00001122, Set: 0x1, Miss, Tag: 0x000008
Address: 0x00003344, Set: 0x1, Hit, Tag: 0x000019
```

Test Case:

Configuration:

```
16384
512
0
LRU
WB
```

Access sequences:

```
R: 0x1234
W: 0x5678
R: 0x9ABC
W: 0xDEFF
R: 0x1234
R: 0x9ABC
W: 0x5678
R: 0xDEFF
R: 0x1234
W: 0xDEFF
```

```
R: 0x9ABC
W: 0x5678
```

Output:

```
Address: 0x00001234, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00005678, Set: 0x0, Miss, Tag: 0x00002b
Address: 0x00009abc, Set: 0x0, Miss, Tag: 0x00004d
Address: 0x0000deff, Set: 0x0, Miss, Tag: 0x00006f
Address: 0x00001234, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00009abc, Set: 0x0, Hit, Tag: 0x00004d
Address: 0x00005678, Set: 0x0, Hit, Tag: 0x00002b
Address: 0x0000deff, Set: 0x0, Hit, Tag: 0x00006f
Address: 0x00001234, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001234, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000deff, Set: 0x0, Hit, Tag: 0x000004d
Address: 0x000009abc, Set: 0x0, Hit, Tag: 0x000004d
Address: 0x000009abc, Set: 0x0, Hit, Tag: 0x000004d
Address: 0x000005678, Set: 0x0, Hit, Tag: 0x000002b
```

Test Case:

Configuration:

```
4096
128
4
FIFO
WT
```

Access sequences:

```
W: 0x1234
R: 0x5678
W: 0x9ABC
R: 0xDEFF
W: 0x1234
R: 0x9ABC
W: 0x5678
R: 0xDEFF
R: 0x1234
W: 0xDEFF
R: 0x1234
W: 0xDEFF
R: 0x9ABC
W: 0x5678
```

Output:

```
Address: 0x00001234, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00005678, Set: 0x4, Miss, Tag: 0x000015
Address: 0x00009abc, Set: 0x5, Miss, Tag: 0x000026
Address: 0x00000deff, Set: 0x5, Miss, Tag: 0x000037
Address: 0x00001234, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00009abc, Set: 0x5, Miss, Tag: 0x000026
Address: 0x00005678, Set: 0x4, Hit, Tag: 0x000015
Address: 0x0000deff, Set: 0x5, Hit, Tag: 0x000037
Address: 0x00001234, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000deff, Set: 0x5, Hit, Tag: 0x0000037
Address: 0x00000deff, Set: 0x5, Hit, Tag: 0x0000037
Address: 0x000009abc, Set: 0x5, Hit, Tag: 0x0000037
Address: 0x000009abc, Set: 0x5, Hit, Tag: 0x0000015
```

Test Case:

Configuration:

```
32768
512
8
LRU
WB
```

Access sequences:

```
R: 0x1234
R: 0x5678
W: 0x1234
W: 0x9ABC
R: 0x5678
R: 0x1234
W: 0x9ABC
W: 0xDEFF
R: 0xDEFF
R: 0x1234
W: 0x9ABC
R: 0x5678
```

Output:

```
Address: 0x00001234, Set: 0x1, Miss, Tag: 0x00001
Address: 0x00005678, Set: 0x3, Miss, Tag: 0x00005
Address: 0x00001234, Set: 0x1, Hit, Tag: 0x00001
Address: 0x00009abc, Set: 0x5, Miss, Tag: 0x00009
Address: 0x00005678, Set: 0x3, Hit, Tag: 0x00005
```

```
Address: 0x00001234, Set: 0x1, Hit, Tag: 0x00001
Address: 0x00009abc, Set: 0x5, Hit, Tag: 0x00009
Address: 0x0000deff, Set: 0x7, Miss, Tag: 0x0000d
Address: 0x0000deff, Set: 0x7, Hit, Tag: 0x0000d
Address: 0x00001234, Set: 0x1, Hit, Tag: 0x00001
Address: 0x00009abc, Set: 0x5, Hit, Tag: 0x00009
Address: 0x00005678, Set: 0x3, Hit, Tag: 0x00005
```

Test Case:

Configuration:

```
8192
256
RANDOM
WT
```

Access sequences:

```
R: 0x1234
W: 0x5678
R: 0x9ABC
W: 0xDEFF
R: 0x1234
W: 0x9ABC
R: 0x5678
R: 0x1234
W: 0xDEFF
R: 0x1234
R: 0x9ABC
W: 0xDEFF
W: 0x1234
R: 0x5678
W: 0x1234
R: 0x9ABC
R: 0x1234
R: 0x1234
W: 0x5678
R: 0x9ABC
R: 0x1234
W: 0xDEFF
W: 0x1234
R: 0x5678
R: 0x1234
R: 0x9ABC
W: 0xDEFF
R: 0x1234
R: 0x9ABC
```

W: 0x5678 R: 0x1234 R: 0xDEFF W: 0x1234 W: 0x9ABC R: 0x5678 R: 0x1234 W: 0xDEFF W: 0x1234 R: 0x5678 R: 0x1234 R: 0x9ABC W: 0xDEFF R: 0x1234 W: 0x5678 R: 0x1234 W: 0x9ABC W: 0x1234 R: 0x5678 R: 0x1234 R: 0x9ABC W: 0xDEFF R: 0x1234 R: 0x9ABC W: 0x5678 R: 0x1234 R: 0xDEFF W: 0x1234 W: 0x9ABC R: 0x5678 R: 0x1234 W: 0xDEFF W: 0x1234 R: 0x5678 R: 0x1234 R: 0x9ABC W: 0xDEFF R: 0x1234 R: 0x9ABC W: 0x5678 R: 0x1234 R: 0xDEFF W: 0x1234 W: 0x9ABC R: 0x5678 R: 0x1234 W: 0xDEFF W: 0x1234 R: 0x5678 R: 0x1234 R: 0x9ABC W: 0xDEFF R: 0x1234 R: 0x9ABC

```
W: 0x5678
R: 0x1234
R: 0xDEFF
W: 0x1234
W: 0x9ABC
R: 0x5678
R: 0x1234
W: 0xDEFF
W: 0x1234
R: 0x5678
R: 0x1234
R: 0x9ABC
W: 0xDEFF
R: 0x1234
R: 0x9ABC
W: 0x5678
R: 0x1234
R: 0xDEFF
W: 0x1234
W: 0x9ABC
R: 0x5678
R: 0x1234
W: 0xDEFF
W: 0x1234
R: 0x5678
```

Output:

```
Address: 0x00001234, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Miss, Tag: 0x000000a
Address: 0x00009abc, Set: 0x2, Miss, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Miss, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Miss, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Miss, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Miss, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x000000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Miss, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
```

```
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x000000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x000009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Miss, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x000009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Miss, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x000000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x000009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x000000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x000009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x000009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
```

```
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x000009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x000000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x000009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x000000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00009abc, Set: 0x2, Hit, Tag: 0x000013
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x0000deff, Set: 0x6, Hit, Tag: 0x00001b
Address: 0x00001234, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00005678, Set: 0x6, Hit, Tag: 0x00000a
```

Test Case:

Configuration:

```
1024
64
2
LRU
WB
```

Access sequences:

```
R: 768
W: 557
R: 592
W: 79
R: 69
```

```
W: 981
R: 469
W: 74
R: 34
W: 224
R: 153
W: 49
R: 802
W: 478
R: 165
W: 141
R: 242
W: 778
R: 552
W: 957
R: 682
W: 131
R: 746
W: 575
R: 685
W: 850
R: 258
W: 915
R: 978
W: 1016
R: 731
W: 722
R: 549
W: 300
R: 801
W: 618
R: 257
W: 246
R: 693
W: 291
R: 471
W: 846
R: 340
W: 249
R: 300
W: 506
R: 390
W: 542
R: 260
W: 942
R: 476
W: 942
R: 49
W: 198
R: 493
W: 734
R: 24
W: 751
R: 625
```

```
W: 1002
R: 743
W: 333
R: 700
W: 268
R: 633
W: 477
R: 887
W: 890
R: 724
W: 556
R: 158
W: 171
R: 378
W: 498
R: 420
W: 678
R: 1004
W: 810
R: 196
W: 241
R: 728
W: 672
R: 159
W: 778
R: 870
W: 653
R: 488
W: 894
R: 380
W: 90
R: 872
W: 100
R: 423
W: 548
R: 368
W: 32
R: 2
W: 231
R: 922
W: 726
```

Output:

```
Address: 0x00000768, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000557, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000592, Set: 0x6, Miss, Tag: 0x000002
Address: 0x00000079, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000069, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000981, Set: 0x6, Miss, Tag: 0x000004
Address: 0x00000469, Set: 0x1, Miss, Tag: 0x000002
```

```
Address: 0x00000074, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000034, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000224, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000153, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000049, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000802, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000478, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000165, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000141, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000242, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000778, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000552, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000957, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000682, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00000131, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000746, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000575, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000685, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000850, Set: 0x1, Miss, Tag: 0x000004
Address: 0x000000258, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000915, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000978, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00001016, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000731, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000722, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000549, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000300, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000801, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000618, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000257, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000246, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000693, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000291, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000471, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000846, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000340, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00000249, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000300, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000506, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000390, Set: 0x6, Miss, Tag: 0x000001
Address: 0x00000542, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000260, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000942, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000476, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000942, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000049, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000198, Set: 0x6, Miss, Tag: 0x000000
Address: 0x00000493, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000734, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000024, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000751, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000625, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001002, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000743, Set: 0x5, Hit, Tag: 0x000003
```

```
Address: 0x00000333, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000700, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000268, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000633, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000477, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000887, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000890, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000724, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000556, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000158, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000171, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000378, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00000498, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000420, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000678, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00001004, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000810, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000196, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000241, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000728, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000672, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000159, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000778, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000870, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000653, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000488, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000894, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000380, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000090, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000872, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000100, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000423, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000548, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000368, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00000032, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000002, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000231, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000922, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000726, Set: 0x4, Miss, Tag: 0x000003
```

Test Case:

Configuration:

```
2048
64
4
LRU
WB
```

Access sequences:

```
R: 196
W: 693
R: 86
W: 706
R: 229
W: 1017
R: 662
W: 415
R: 838
W: 248
R: 469
W: 762
R: 662
W: 440
R: 412
W: 765
R: 803
W: 663
R: 463
W: 498
R: 818
W: 7
R: 1011
W: 381
R: 281
W: 734
R: 921
W: 25
R: 275
W: 519
R: 968
W: 472
R: 188
W: 30
R: 154
W: 417
R: 23
W: 816
R: 833
W: 862
R: 40
W: 278
R: 600
W: 702
R: 718
W: 1012
R: 444
W: 497
R: 652
W: 907
```

```
R: 996
W: 446
R: 914
W: 983
R: 827
W: 171
R: 694
W: 725
R: 197
W: 969
R: 220
W: 141
R: 417
W: 408
R: 172
W: 572
R: 826
W: 195
R: 364
W: 635
R: 33
W: 405
R: 913
W: 633
R: 83
W: 607
R: 622
W: 527
R: 81
W: 250
R: 411
W: 53
R: 696
W: 301
R: 12
W: 499
R: 473
W: 706
R: 200
W: 670
R: 652
W: 420
R: 811
W: 45
R: 829
W: 983
R: 617
W: 631
R: 155
W: 982
R: 242
W: 188
R: 363
W: 131
```

```
R: 822
W: 446
R: 738
W: 420
R: 974
W: 819
R: 670
W: 361
R: 872
W: 342
R: 662
W: 885
R: 841
W: 111
R: 567
W: 18
R: 781
W: 195
R: 438
W: 569
R: 241
W: 243
R: 528
W: 858
R: 874
W: 683
R: 816
W: 92
R: 872
W: 155
R: 223
W: 670
R: 602
W: 962
R: 66
W: 552
R: 757
W: 736
R: 913
W: 606
R: 54
W: 551
R: 467
W: 895
R: 663
W: 10
R: 913
W: 420
R: 206
W: 328
R: 989
W: 447
R: 571
W: 494
```

```
R: 281
W: 422
R: 153
W: 74
R: 514
W: 1
R: 229
W: 738
R: 671
W: 831
R: 676
W: 737
R: 359
W: 409
R: 449
W: 248
R: 1015
W: 503
R: 800
W: 458
R: 375
W: 439
R: 469
W: 264
R: 859
W: 675
R: 592
W: 825
R: 98
W: 140
R: 295
W: 379
R: 562
W: 448
R: 453
W: 52
R: 450
W: 683
R: 790
W: 97
R: 490
W: 442
R: 835
W: 850
R: 852
W: 260
R: 74
W: 843
R: 764
W: 874
R: 278
W: 115
R: 289
W: 747
```

```
R: 379
W: 125
R: 398
W: 972
R: 950
W: 496
R: 88
W: 221
R: 875
W: 650
R: 669
W: 305
R: 702
W: 95
R: 988
W: 469
R: 193
W: 454
R: 911
W: 4
R: 280
W: 739
R: 264
W: 355
R: 559
W: 4
R: 205
W: 837
R: 119
W: 495
R: 560
W: 499
R: 620
W: 958
R: 447
W: 546
R: 430
W: 535
R: 767
W: 281
R: 161
W: 412
R: 586
W: 863
R: 508
W: 550
R: 308
W: 701
R: 1005
W: 196
R: 705
W: 261
R: 935
W: 969
```

```
R: 616
W: 470
R: 974
W: 822
R: 283
W: 69
R: 293
W: 843
R: 568
W: 913
R: 777
W: 1015
R: 435
W: 183
R: 526
W: 178
R: 465
W: 687
R: 590
W: 27
R: 527
W: 74
R: 578
W: 835
R: 775
W: 559
R: 7
W: 456
R: 820
W: 943
R: 402
W: 413
R: 389
W: 352
R: 211
W: 673
R: 421
W: 504
R: 492
W: 990
R: 393
W: 246
R: 981
W: 828
R: 429
W: 484
R: 1006
W: 894
R: 147
W: 572
R: 922
W: 674
R: 647
W: 476
```

```
R: 486
W: 398
R: 11
W: 493
R: 855
W: 831
R: 412
W: 233
R: 220
W: 802
R: 585
W: 431
R: 451
W: 1006
R: 935
W: 943
R: 972
W: 304
R: 165
W: 930
R: 108
W: 595
R: 390
W: 90
R: 465
W: 537
R: 663
W: 363
R: 188
W: 286
R: 839
W: 674
R: 684
W: 850
R: 143
W: 515
R: 658
W: 556
R: 748
W: 878
R: 334
W: 309
R: 286
W: 785
R: 292
W: 197
R: 704
W: 240
R: 502
W: 870
R: 146
W: 610
R: 441
W: 536
```

```
R: 701
W: 906
R: 50
W: 340
R: 246
W: 238
R: 626
W: 61
R: 912
W: 286
R: 912
W: 31
R: 802
W: 546
R: 587
W: 526
R: 400
W: 921
R: 836
W: 686
R: 682
W: 104
R: 884
W: 363
R: 344
W: 362
R: 209
W: 491
R: 972
W: 650
R: 3
W: 649
R: 532
W: 53
R: 989
W: 778
R: 291
W: 591
R: 840
W: 179
R: 878
W: 728
R: 211
W: 656
R: 250
W: 798
R: 158
W: 650
R: 696
W: 994
R: 313
W: 354
R: 74
W: 173
```

```
R: 717
W: 419
R: 535
W: 926
R: 910
W: 483
R: 552
W: 913
R: 109
W: 61
R: 967
W: 74
R: 839
W: 234
R: 666
W: 655
R: 414
W: 520
R: 359
W: 625
R: 152
W: 609
R: 399
W: 310
R: 236
W: 71
R: 281
W: 549
R: 426
W: 355
R: 722
W: 119
R: 774
W: 233
R: 22
W: 660
R: 716
W: 574
R: 550
W: 825
R: 635
W: 493
R: 900
W: 451
R: 727
W: 542
R: 82
W: 117
R: 38
W: 442
R: 742
W: 190
R: 27
W: 118
```

```
R: 500
W: 263
R: 189
W: 781
R: 812
W: 615
R: 113
W: 510
R: 735
W: 887
R: 743
W: 757
R: 524
W: 436
R: 307
W: 50
R: 237
W: 943
```

Output:

```
Address: 0x00000196, Set: 0x6, Miss, Tag: 0x000000
Address: 0x00000693, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00000086, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000706, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000229, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00001017, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000662, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000415, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000838, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000248, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000469, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000762, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000662, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000440, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000412, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000765, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000803, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000663, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000463, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000498, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000818, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000007, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001011, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000381, Set: 0x6, Miss, Tag: 0x000001
Address: 0x00000281, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000734, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000921, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000025, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000275, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000519, Set: 0x4, Miss, Tag: 0x000002
```

```
Address: 0x00000968, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000472, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000188, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000030, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000154, Set: 0x5, Miss, Tag: 0x000000
Address: 0x000000417, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000023, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000816, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000833, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000862, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000040, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000278, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000600, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000702, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000718, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00001012, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000444, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000497, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000652, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000907, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000996, Set: 0x6, Miss, Tag: 0x000004
Address: 0x00000446, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000914, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000983, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000827, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000171, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000694, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000725, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000197, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000969, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000220, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000141, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000417, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000408, Set: 0x0, Hit, Tag: 0x0000002
Address: 0x00000172, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000572, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000826, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000195, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000364, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00000635, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000033, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000405, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000913, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000633, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000083, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000607, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000622, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000527, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000081, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000250, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000411, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000053, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000696, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000301, Set: 0x4, Miss, Tag: 0x000001
```

```
Address: 0x00000012, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000499, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000473, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000706, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000200, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000670, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000652, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000420, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000811, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000045, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000829, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000983, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000617, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000631, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000155, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000982, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000242, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000188, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000363, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000131, Set: 0x4, Miss, Tag: 0x000000
Address: 0x000000822, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000446, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000738, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000420, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000974, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000819, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000670, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000361, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000872, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000342, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000662, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000885, Set: 0x2, Miss, Tag: 0x000004
Address: 0x000000841, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000111, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000567, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000018, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000781, Set: 0x6, Miss, Tag: 0x000003
Address: 0x00000195, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000438, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000569, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000241, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000243, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000528, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000858, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000874, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000683, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000816, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000092, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000872, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000155, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000223, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000670, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000602, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000962, Set: 0x5, Hit, Tag: 0x000004
```

```
Address: 0x00000066, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000552, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000757, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000736, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000913, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000606, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000054, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000551, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000467, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000895, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000663, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000010, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000913, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000420, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000206, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000328, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000989, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000447, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000571, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000494, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000281, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000422, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000153, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000074, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000514, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000001, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000229, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000738, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000671, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000831, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000676, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000737, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000359, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000409, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000449, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000248, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00001015, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000503, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000800, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000458, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000375, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000439, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000469, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000264, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000859, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000675, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000592, Set: 0x6, Miss, Tag: 0x000002
Address: 0x000000825, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000098, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000140, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000295, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000379, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000562, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000448, Set: 0x1, Hit, Tag: 0x000002
```

```
Address: 0x00000453, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000052, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000450, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000683, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000790, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000097, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000490, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000442, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000835, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000850, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000852, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000260, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000074, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000843, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000764, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000874, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000278, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000115, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000289, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000747, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000379, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000125, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000398, Set: 0x6, Miss, Tag: 0x000001
Address: 0x00000972, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000950, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000496, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000088, Set: 0x2, Hit, Tag: 0x000000
Address: 0x000000221, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000875, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000650, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000669, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000305, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000702, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000095, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000988, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000469, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000193, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000454, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000911, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000004, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000280, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000739, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000264, Set: 0x1, Miss, Tag: 0x000001
Address: 0x000000355, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000559, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000004, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000205, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000837, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000119, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000495, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000560, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000499, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000620, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000058, Set: 0x5, Hit, Tag: 0x000004
```

```
Address: 0x00000447, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000546, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000430, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000535, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000767, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000281, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000161, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000412, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000586, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000863, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000508, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000550, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000308, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000701, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00001005, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000196, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000705, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000261, Set: 0x1, Hit, Tag: 0x000001
Address: 0x000000935, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000969, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000616, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000470, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000974, Set: 0x5, Hit, Tag: 0x000004
Address: 0x000000822, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000283, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000069, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000293, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000843, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000568, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000913, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000777, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00001015, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000435, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000183, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000526, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000178, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000465, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000687, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000590, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000027, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000527, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000074, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000578, Set: 0x5, Hit, Tag: 0x000002
Address: 0x000000835, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000775, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000559, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000007, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000456, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000820, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000943, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000402, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000413, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000389, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000352, Set: 0x5, Miss, Tag: 0x000001
```

```
Address: 0x00000211, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000673, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000421, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000504, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000492, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000990, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000393, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000246, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000981, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000828, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000429, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000484, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00001006, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000894, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000147, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000572, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000922, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000674, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000647, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000476, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000486, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000398, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000011, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000493, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000855, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000831, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000412, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000233, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000220, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000802, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000585, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000431, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000451, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001006, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000935, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000943, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000972, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000304, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000165, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000930, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000108, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000595, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000390, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000090, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000465, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000537, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000663, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000363, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000188, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000286, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000839, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000674, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000684, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000850, Set: 0x1, Hit, Tag: 0x000004
```

```
Address: 0x00000143, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000515, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000658, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000556, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000748, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000878, Set: 0x1, Hit, Tag: 0x000004
Address: 0x000000334, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000309, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000286, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000785, Set: 0x6, Miss, Tag: 0x000003
Address: 0x00000292, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000197, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000704, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000240, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000502, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000870, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000146, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000610, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000441, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000536, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000701, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000906, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000050, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000340, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000246, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000238, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000626, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000061, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000912, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000286, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000912, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000031, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000802, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000546, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000587, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000526, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000400, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000921, Set: 0x4, Hit, Tag: 0x000004
Address: 0x000000836, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000686, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000682, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000104, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000884, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000363, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000344, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000362, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000209, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000491, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000972, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000650, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000003, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000649, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000532, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000053, Set: 0x1, Hit, Tag: 0x000000
```

```
Address: 0x00000989, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000778, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000291, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000591, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000840, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000179, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000878, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000728, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000211, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000656, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000250, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000798, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000158, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000650, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000696, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000994, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000313, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000354, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00000074, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000173, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000717, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000419, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000535, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000926, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000910, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000483, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000552, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000913, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000109, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000061, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000967, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000074, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000839, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000234, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000666, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000655, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000414, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000520, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000359, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000625, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000152, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000609, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000399, Set: 0x6, Miss, Tag: 0x000001
Address: 0x00000310, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000236, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000071, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000281, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000549, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000426, Set: 0x0, Hit, Tag: 0x000002
Address: 0x000000355, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000722, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000119, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000774, Set: 0x5, Miss, Tag: 0x000003
Address: 0x000000233, Set: 0x0, Hit, Tag: 0x000001
```

```
Address: 0x00000022, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000660, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000716, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000574, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000550, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000825, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000635, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000493, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000900, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000451, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000727, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000542, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000082, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000117, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000038, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000442, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000742, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000190, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000027, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000118, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000500, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000263, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000189, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000781, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000812, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000615, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000113, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000510, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000735, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000887, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000743, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000757, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000524, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000436, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000307, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000050, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000237, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000943, Set: 0x5, Hit, Tag: 0x000004
```

Test Case:

Configuration:

```
2048
64
4
FIFO
WT
```

```
R: 708
W: 5
R: 200
W: 507
R: 386
W: 403
R: 25
W: 890
R: 641
W: 548
R: 286
W: 479
R: 256
W: 134
R: 671
W: 79
R: 188
W: 311
R: 354
W: 895
R: 62
W: 166
R: 676
W: 34
R: 577
W: 134
R: 940
W: 990
R: 718
W: 858
R: 913
W: 402
R: 864
W: 89
R: 910
W: 226
R: 492
W: 935
R: 93
W: 110
R: 459
W: 379
R: 589
W: 715
R: 513
W: 237
R: 794
W: 701
R: 548
W: 125
R: 572
W: 611
```

```
R: 291
W: 224
R: 645
W: 868
R: 358
W: 562
R: 835
W: 53
R: 396
W: 724
R: 455
W: 236
R: 814
W: 341
R: 463
W: 282
R: 252
W: 556
R: 392
W: 711
R: 935
W: 982
R: 403
W: 425
R: 195
W: 173
R: 102
W: 743
R: 298
W: 675
R: 330
W: 589
R: 899
W: 976
R: 434
W: 234
R: 514
W: 245
R: 287
W: 910
R: 969
W: 742
R: 123
W: 759
R: 60
W: 586
R: 18
W: 312
R: 118
W: 410
R: 0
W: 29
R: 368
W: 403
```

```
R: 454
W: 563
R: 576
W: 557
R: 283
W: 875
R: 208
W: 613
R: 440
W: 83
R: 565
W: 874
R: 317
W: 55
R: 95
W: 604
R: 966
W: 41
R: 323
W: 65
R: 800
W: 383
R: 651
W: 818
R: 695
W: 769
R: 205
W: 695
R: 798
W: 573
R: 74
W: 229
R: 113
W: 651
R: 786
W: 396
R: 502
W: 994
R: 1009
W: 942
R: 53
W: 551
R: 793
W: 371
R: 606
W: 888
R: 975
W: 548
R: 929
W: 274
R: 613
W: 706
R: 657
W: 240
```

```
R: 500
W: 329
R: 1009
W: 705
R: 0
W: 784
R: 255
W: 75
R: 1013
W: 368
R: 726
W: 775
R: 764
W: 204
R: 745
W: 749
R: 122
W: 798
R: 276
W: 915
R: 145
W: 883
R: 780
W: 97
R: 407
W: 685
R: 371
W: 1021
R: 367
W: 5
R: 237
W: 868
R: 334
W: 223
R: 549
W: 334
R: 1007
W: 804
R: 409
W: 996
R: 148
W: 111
R: 747
W: 912
R: 315
W: 468
R: 638
W: 438
R: 242
W: 914
R: 329
W: 388
R: 773
W: 85
```

```
R: 485
W: 157
R: 771
W: 856
R: 154
W: 114
R: 861
W: 391
R: 982
W: 171
R: 614
W: 508
R: 506
W: 597
R: 288
W: 915
R: 569
W: 437
R: 3
W: 292
R: 325
W: 318
R: 760
W: 963
R: 756
W: 1003
R: 854
W: 62
R: 367
W: 603
R: 147
W: 852
R: 760
W: 918
R: 684
W: 914
R: 9
W: 522
R: 282
W: 991
R: 693
W: 896
R: 475
W: 175
R: 470
W: 764
R: 67
W: 15
R: 177
W: 70
R: 308
W: 502
R: 388
W: 44
```

```
R: 442
W: 121
R: 23
W: 272
R: 183
W: 390
R: 875
W: 330
R: 218
W: 612
R: 225
W: 903
R: 502
W: 234
R: 401
W: 784
R: 201
W: 70
R: 657
W: 677
R: 246
W: 103
R: 417
W: 313
R: 118
W: 594
R: 383
W: 426
R: 72
W: 771
R: 471
W: 514
R: 892
W: 494
R: 786
W: 51
R: 885
W: 638
R: 382
W: 79
R: 226
W: 607
R: 982
W: 728
R: 841
W: 359
R: 489
W: 18
R: 430
W: 122
R: 695
W: 676
R: 225
W: 88
```

```
R: 989
W: 343
R: 682
W: 348
R: 770
W: 755
R: 95
W: 217
R: 245
W: 988
R: 711
W: 8
R: 15
W: 572
R: 646
W: 397
R: 652
W: 872
R: 1004
W: 610
R: 576
W: 821
R: 970
W: 41
R: 840
W: 376
R: 163
W: 511
R: 28
W: 388
R: 600
W: 1017
R: 732
W: 258
R: 341
W: 478
R: 1013
W: 436
R: 695
W: 235
R: 400
W: 382
R: 243
W: 416
R: 955
W: 889
R: 813
W: 583
R: 737
W: 794
R: 169
W: 289
R: 591
W: 115
```

```
R: 331
W: 407
R: 491
W: 494
R: 919
W: 519
R: 883
W: 495
R: 512
W: 591
R: 753
W: 853
R: 45
W: 743
R: 266
W: 740
R: 978
W: 666
R: 98
W: 197
R: 58
W: 29
R: 62
W: 872
R: 612
W: 799
R: 642
W: 782
R: 64
W: 209
R: 897
W: 395
R: 617
W: 365
R: 890
W: 512
R: 884
W: 749
R: 1007
W: 373
R: 316
W: 736
R: 202
W: 361
R: 455
W: 468
R: 77
W: 409
R: 111
W: 175
R: 606
W: 169
R: 205
W: 668
```

```
R: 17
W: 817
R: 443
W: 659
R: 575
W: 508
R: 869
W: 449
R: 903
W: 462
R: 814
W: 769
R: 974
W: 674
R: 494
W: 957
R: 23
W: 810
R: 669
W: 226
R: 147
W: 101
R: 694
W: 224
R: 510
W: 805
R: 400
W: 93
R: 975
W: 605
R: 761
W: 992
R: 398
W: 181
R: 628
W: 974
R: 689
W: 473
R: 399
W: 568
R: 935
W: 189
R: 314
W: 885
R: 863
W: 808
R: 818
W: 887
R: 595
W: 463
R: 89
W: 742
R: 564
W: 783
```

```
R: 967
W: 51
R: 565
W: 343
R: 144
W: 516
R: 948
W: 905
R: 484
W: 322
R: 62
W: 88
R: 272
W: 751
R: 561
W: 671
```

Output:

```
Address: 0x00000708, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000005, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000200, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000507, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000386, Set: 0x6, Miss, Tag: 0x000001
Address: 0x00000403, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000025, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000890, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000641, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000548, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000286, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000479, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000256, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000134, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000671, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000079, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000188, Set: 0x6, Miss, Tag: 0x000000
Address: 0x00000311, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000354, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00000895, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000062, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000166, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000676, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000034, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000577, Set: 0x5, Miss, Tag: 0x000002
Address: 0x00000134, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000940, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000990, Set: 0x6, Miss, Tag: 0x000004
Address: 0x00000718, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000858, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000913, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000402, Set: 0x0, Miss, Tag: 0x000002
```

```
Address: 0x00000864, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000089, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000910, Set: 0x4, Hit, Tag: 0x000004
Address: 0x000000226, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000492, Set: 0x2, Miss, Tag: 0x000002
Address: 0x000000935, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000093, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000110, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000459, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000379, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000589, Set: 0x6, Miss, Tag: 0x000002
Address: 0x00000715, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000513, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000237, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000794, Set: 0x6, Miss, Tag: 0x000003
Address: 0x00000701, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000548, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000125, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000572, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000611, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000291, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000224, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000645, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000868, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000358, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000562, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000835, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000053, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000396, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000724, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000455, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000236, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000814, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000341, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000463, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000282, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000252, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000556, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000392, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000711, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000935, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000982, Set: 0x6, Miss, Tag: 0x000004
Address: 0x00000403, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000425, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000195, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000173, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000102, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000743, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000298, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000675, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000330, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000589, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000899, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000976, Set: 0x5, Hit, Tag: 0x000004
```

```
Address: 0x00000434, Set: 0x0, Hit, Tag: 0x000002
Address: 0x000000234, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000514, Set: 0x4, Hit, Tag: 0x000002
Address: 0x000000245, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000287, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000910, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000969, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000742, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000123, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000759, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000060, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000586, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000018, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000312, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000118, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000410, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000000, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000029, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000368, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000403, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000454, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000563, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000576, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000557, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000283, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000875, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000208, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000613, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000440, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000083, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000565, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000874, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000317, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000055, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000095, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000604, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000966, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000041, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000323, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000065, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000800, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000383, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000651, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000818, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000695, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00000769, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000205, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000695, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000798, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000573, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000074, Set: 0x1, Hit, Tag: 0x000000
Address: 0x000000229, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000113, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000651, Set: 0x1, Hit, Tag: 0x000003
```

```
Address: 0x00000786, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000396, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000502, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000994, Set: 0x6, Miss, Tag: 0x000004
Address: 0x00001009, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000942, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000053, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000551, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000793, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000371, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000606, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000888, Set: 0x2, Hit, Tag: 0x000004
Address: 0x000000975, Set: 0x5, Hit, Tag: 0x0000004
Address: 0x00000548, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000929, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000274, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000613, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000706, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000657, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000240, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000500, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000329, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00001009, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000705, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000000, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000784, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000255, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000075, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00001013, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000368, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000726, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000775, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000764, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000204, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000745, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000749, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000122, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000798, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000276, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000915, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000145, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000883, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000780, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000097, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000407, Set: 0x0, Hit, Tag: 0x0000002
Address: 0x00000685, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000371, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00001021, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000367, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000005, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000237, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000868, Set: 0x1, Miss, Tag: 0x000004
Address: 0x000000334, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000223, Set: 0x0, Hit, Tag: 0x000001
```

```
Address: 0x00000549, Set: 0x5, Miss, Tag: 0x000002
Address: 0x000000334, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00001007, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000804, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000409, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000996, Set: 0x6, Miss, Tag: 0x000004
Address: 0x00000148, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000111, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000747, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000912, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000315, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000468, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000638, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000438, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000242, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000914, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000329, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000388, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000773, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000085, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000485, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000157, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000771, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000856, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000154, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000114, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000861, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000391, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000982, Set: 0x6, Miss, Tag: 0x000004
Address: 0x00000171, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000614, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000508, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000506, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000597, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000288, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000915, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000569, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000437, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000003, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000292, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000325, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000318, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000760, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000963, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000756, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00001003, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000854, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000062, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000367, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000603, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000147, Set: 0x5, Hit, Tag: 0x000000
Address: 0x000000852, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000760, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000918, Set: 0x4, Miss, Tag: 0x000004
```

```
Address: 0x00000684, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000914, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000009, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000522, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000282, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000991, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000693, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000896, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000475, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000175, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000470, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000764, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000067, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000015, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000177, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000070, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000308, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000502, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000388, Set: 0x6, Miss, Tag: 0x000001
Address: 0x00000044, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000442, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000121, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000023, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000272, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000183, Set: 0x6, Miss, Tag: 0x000000
Address: 0x00000390, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000875, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000330, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000218, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000612, Set: 0x0, Hit, Tag: 0x000003
Address: 0x000000225, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000903, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000502, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000234, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000401, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000784, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000201, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000070, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000657, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000677, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000246, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000103, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000417, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000313, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000118, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000594, Set: 0x6, Miss, Tag: 0x000002
Address: 0x00000383, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000426, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000072, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000771, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000471, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000514, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000892, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000494, Set: 0x2, Miss, Tag: 0x000002
```

```
Address: 0x00000786, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000051, Set: 0x1, Hit, Tag: 0x000000
Address: 0x000000885, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000638, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000382, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000079, Set: 0x1, Hit, Tag: 0x000000
Address: 0x000000226, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000607, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000982, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000728, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000841, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000359, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000489, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000018, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000430, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000122, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000695, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000676, Set: 0x1, Hit, Tag: 0x000003
Address: 0x000000225, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000088, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000989, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000343, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000682, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000348, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000770, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000755, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000095, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000217, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000245, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000988, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000711, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000008, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000015, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000572, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000646, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000397, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000652, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000872, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00001004, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000610, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000576, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000821, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000970, Set: 0x5, Miss, Tag: 0x000004
Address: 0x00000041, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000840, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000376, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000163, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000511, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000028, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000388, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000600, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00001017, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000732, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000258, Set: 0x1, Hit, Tag: 0x000001
```

```
Address: 0x00000341, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000478, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00001013, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000436, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000695, Set: 0x2, Hit, Tag: 0x000003
Address: 0x000000235, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000400, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000382, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000243, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000416, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000955, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000889, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000813, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000583, Set: 0x6, Miss, Tag: 0x000002
Address: 0x00000737, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000794, Set: 0x6, Hit, Tag: 0x000003
Address: 0x00000169, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000289, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000591, Set: 0x6, Miss, Tag: 0x000002
Address: 0x00000115, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000331, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000407, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000491, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000494, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000919, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000519, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000883, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000495, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000512, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000591, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000753, Set: 0x5, Miss, Tag: 0x000003
Address: 0x00000853, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000045, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000743, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000266, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000740, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000978, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000666, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000098, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000197, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000058, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000029, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000062, Set: 0x1, Hit, Tag: 0x000000
Address: 0x000000872, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000612, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000799, Set: 0x6, Miss, Tag: 0x000003
Address: 0x00000642, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000782, Set: 0x6, Miss, Tag: 0x000003
Address: 0x00000064, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000209, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000897, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000395, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000617, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000365, Set: 0x5, Hit, Tag: 0x000001
```

```
Address: 0x00000890, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000512, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000884, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000749, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00001007, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000373, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000316, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000736, Set: 0x4, Hit, Tag: 0x000003
Address: 0x00000202, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000361, Set: 0x5, Hit, Tag: 0x000001
Address: 0x00000455, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000468, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000077, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000409, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000111, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00000175, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000606, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000169, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000205, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000668, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000017, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000817, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000443, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000659, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000575, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000508, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000869, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000449, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000903, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000462, Set: 0x1, Hit, Tag: 0x000002
Address: 0x000000814, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000769, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000974, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000674, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000494, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000957, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000023, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000810, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000669, Set: 0x1, Miss, Tag: 0x000003
Address: 0x000000226, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000147, Set: 0x5, Miss, Tag: 0x000000
Address: 0x00000101, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000694, Set: 0x2, Miss, Tag: 0x000003
Address: 0x000000224, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000510, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000805, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000400, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000093, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000975, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000605, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000761, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000992, Set: 0x6, Hit, Tag: 0x000004
Address: 0x00000398, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000181, Set: 0x6, Hit, Tag: 0x000000
```

```
Address: 0x00000628, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000974, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000689, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000473, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000399, Set: 0x6, Hit, Tag: 0x000001
Address: 0x00000568, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000935, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000189, Set: 0x6, Hit, Tag: 0x000000
Address: 0x00000314, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000885, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000863, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000808, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000818, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000887, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000595, Set: 0x6, Hit, Tag: 0x000002
Address: 0x00000463, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000089, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000742, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000564, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000783, Set: 0x6, Miss, Tag: 0x000003
Address: 0x00000967, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000051, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000565, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000343, Set: 0x5, Miss, Tag: 0x000001
Address: 0x00000144, Set: 0x5, Hit, Tag: 0x000000
Address: 0x00000516, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000948, Set: 0x5, Hit, Tag: 0x000004
Address: 0x00000905, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000484, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000322, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000062, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000088, Set: 0x2, Hit, Tag: 0x000000
Address: 0x00000272, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000751, Set: 0x5, Hit, Tag: 0x000003
Address: 0x00000561, Set: 0x5, Hit, Tag: 0x000002
Address: 0x00000671, Set: 0x1, Hit, Tag: 0x000003
```

Test Case:

Configuration:

```
2048
32
4
FIFO
WT
```

Access sequences:

R: 1804 W: 1174 R: 1545 W: 1604 R: 381 W: 1455 R: 1753 W: 402 R: 503 W: 854 R: 1130 W: 1091 R: 532 W: 700 R: 1729 W: 667 R: 1705 W: 799 R: 1746 W: 1799 R: 502 W: 205 R: 384 W: 719 R: 1415 W: 599 R: 600 W: 1599 R: 1702 W: 1510 R: 1073 W: 1458 R: 636 W: 571 R: 1014 W: 1017 R: 2026 W: 719 R: 1419 W: 482 R: 1573 W: 502 R: 1573 W: 57 R: 1202 W: 1254 R: 724 W: 860 R: 5 W: 423 R: 611 W: 508 R: 628

```
W: 996
R: 1227
W: 2044
R: 1595
W: 1827
R: 1595
W: 1249
R: 1289
W: 620
R: 659
W: 1925
R: 1191
W: 1673
R: 894
W: 1170
R: 344
W: 266
R: 1652
W: 1917
R: 768
W: 1177
R: 1974
W: 1970
R: 383
W: 650
R: 782
W: 389
R: 1073
W: 1394
R: 897
W: 1702
R: 342
W: 76
R: 1698
W: 1937
R: 1904
W: 1245
R: 1138
W: 1145
R: 1865
W: 1797
R: 1023
W: 1009
R: 1422
W: 1917
R: 131
W: 1766
R: 135
W: 1783
R: 1635
W: 903
R: 912
W: 1561
R: 826
```

```
W: 1295
R: 163
W: 1608
R: 1684
W: 1237
R: 954
W: 533
R: 891
W: 1296
R: 610
W: 541
R: 1185
W: 466
R: 1786
W: 275
R: 1611
W: 1603
R: 24
W: 586
R: 564
W: 1446
R: 456
W: 695
R: 1164
W: 591
R: 430
W: 751
R: 1495
W: 1342
R: 264
W: 273
R: 590
W: 428
R: 1881
W: 226
R: 1665
W: 788
R: 760
W: 508
R: 36
W: 1370
R: 1049
W: 1222
R: 1836
W: 787
R: 1497
W: 1399
R: 342
W: 1522
R: 1986
W: 907
R: 920
W: 394
R: 1602
```

```
W: 37
R: 985
W: 2033
R: 788
W: 432
R: 1327
W: 1053
R: 705
W: 1917
R: 1481
W: 539
R: 96
W: 1098
R: 1327
W: 856
R: 1606
W: 1363
R: 178
W: 607
R: 537
W: 2014
R: 1394
W: 2035
R: 1365
W: 1736
R: 1509
W: 1303
R: 595
W: 381
R: 1697
W: 150
R: 418
W: 635
R: 135
W: 1207
R: 1067
W: 1462
R: 212
W: 1773
R: 1332
W: 1693
R: 264
W: 1428
R: 743
W: 1591
R: 236
W: 301
R: 906
W: 414
R: 908
W: 1444
R: 380
W: 254
R: 1431
```

```
W: 1745
R: 1990
W: 892
R: 1001
W: 538
R: 1273
W: 650
R: 688
W: 1692
R: 1285
W: 823
R: 851
W: 305
R: 237
W: 1063
R: 30
W: 1569
R: 708
W: 294
R: 949
W: 1451
R: 1885
W: 1185
R: 1752
W: 743
R: 1599
W: 612
R: 139
W: 1979
R: 866
W: 1570
R: 1677
W: 808
R: 414
W: 630
R: 1346
W: 1688
R: 1280
W: 2034
R: 1332
W: 518
R: 809
W: 135
R: 823
W: 1047
R: 1198
W: 853
R: 568
W: 1906
R: 1147
W: 1518
R: 1309
W: 984
R: 655
```

```
W: 1013
R: 1727
W: 207
R: 1625
W: 1867
R: 138
W: 443
R: 1389
W: 1815
R: 1251
W: 1804
R: 397
W: 550
R: 1444
W: 1678
R: 536
W: 728
R: 148
W: 1346
R: 863
W: 971
R: 345
W: 13
R: 1824
W: 913
R: 1919
W: 923
R: 383
W: 1180
R: 1907
W: 1039
R: 145
W: 1586
R: 1246
W: 1770
R: 1405
W: 1384
R: 165
W: 747
R: 1152
W: 1416
R: 503
W: 1549
R: 1966
W: 1947
R: 1179
W: 455
R: 627
W: 1327
R: 1801
W: 1490
R: 250
W: 98
R: 1503
```

```
W: 26
R: 1011
W: 1374
R: 949
W: 1395
R: 506
W: 808
R: 386
W: 651
R: 347
W: 1632
R: 373
W: 1752
R: 968
W: 538
R: 451
W: 72
R: 1954
W: 954
R: 1622
W: 1873
R: 853
W: 753
R: 280
W: 1480
R: 33
W: 33
R: 922
W: 283
R: 131
W: 377
R: 310
W: 1142
R: 1751
W: 1259
R: 489
W: 209
R: 20
W: 875
R: 860
W: 367
R: 459
W: 1233
R: 71
W: 1428
R: 1771
W: 523
R: 1500
W: 1678
R: 1477
W: 1074
R: 1503
W: 283
R: 1828
```

```
W: 1783
R: 1763
W: 1861
R: 1816
W: 638
R: 96
W: 1947
R: 1015
W: 406
R: 1041
W: 719
R: 1666
W: 1531
R: 928
W: 1686
R: 358
W: 1789
R: 5
W: 818
R: 974
W: 76
R: 198
W: 698
R: 599
W: 1698
R: 328
W: 29
R: 725
W: 1831
R: 312
W: 505
R: 1566
W: 27
R: 318
W: 1334
R: 665
W: 414
R: 1233
W: 1681
R: 821
W: 226
R: 352
W: 439
R: 1757
W: 1280
R: 77
W: 68
R: 1021
W: 82
R: 886
W: 1996
R: 158
W: 1084
R: 646
```

```
W: 758
R: 734
W: 974
R: 787
W: 1459
R: 757
W: 1099
R: 1964
W: 275
R: 1126
W: 234
R: 1609
W: 1792
R: 649
W: 794
R: 1425
W: 1470
R: 1020
W: 1777
R: 1909
W: 730
R: 1009
W: 1986
R: 798
W: 2031
R: 20
W: 1684
R: 1979
W: 178
R: 720
W: 577
R: 936
W: 1454
R: 1551
W: 1723
R: 866
W: 260
R: 774
W: 782
R: 535
W: 1901
R: 1017
W: 96
R: 1645
W: 1666
R: 890
W: 1022
R: 1088
W: 1910
R: 751
W: 949
R: 592
W: 1760
R: 887
```

```
W: 1390
R: 1743
W: 907
R: 1026
W: 1674
R: 1085
W: 1746
R: 203
W: 2022
R: 1153
W: 1754
R: 1697
W: 2019
R: 2014
W: 424
R: 753
W: 501
R: 277
W: 1770
R: 597
W: 1922
R: 1388
W: 1487
R: 896
W: 428
R: 1350
W: 1647
R: 1377
W: 1942
R: 1359
W: 216
R: 1285
W: 1055
R: 1123
W: 263
R: 681
W: 161
R: 2010
W: 885
R: 135
W: 1115
R: 591
W: 1832
R: 1086
W: 558
R: 208
W: 1839
R: 1059
W: 485
R: 1562
W: 1657
R: 359
W: 902
R: 1096
```

```
W: 1255
R: 1331
W: 398
R: 854
W: 660
R: 293
W: 166
R: 877
W: 1578
R: 1221
W: 2000
R: 1841
W: 1902
R: 113
W: 1803
R: 739
W: 248
R: 870
W: 1331
R: 33
W: 1956
R: 1889
W: 241
R: 1748
W: 900
R: 727
W: 1262
R: 509
W: 1086
R: 116
W: 1606
R: 294
W: 1447
R: 2004
W: 1148
R: 60
W: 249
R: 1314
W: 937
R: 1827
W: 487
R: 889
W: 1621
R: 342
W: 1003
R: 1376
W: 1081
R: 1251
W: 199
R: 364
W: 1284
R: 107
W: 205
R: 1526
```

```
W: 1855
R: 1106
W: 205
R: 1069
W: 1615
R: 1291
W: 1186
R: 1173
W: 1585
R: 585
W: 1130
R: 686
W: 645
R: 1379
W: 2000
R: 1582
W: 1159
R: 440
W: 424
R: 732
W: 782
R: 1427
W: 60
R: 1863
W: 630
R: 259
W: 180
R: 1915
W: 367
R: 385
W: 1393
R: 174
W: 1491
R: 1598
W: 1244
R: 1059
W: 841
R: 382
W: 184
R: 379
W: 967
R: 1314
W: 1065
R: 1613
W: 646
R: 1017
W: 1147
R: 1805
W: 1457
R: 1571
W: 489
R: 191
W: 950
R: 549
```

```
W: 7
R: 1581
W: 809
R: 187
W: 1448
R: 1176
W: 572
R: 793
W: 1350
R: 16
W: 343
R: 546
W: 1075
R: 1184
W: 928
R: 1259
W: 1563
R: 1896
W: 526
R: 580
W: 1461
R: 1172
W: 1598
R: 560
W: 929
R: 1007
W: 84
R: 1418
W: 1199
R: 1034
W: 1967
R: 1206
W: 567
R: 728
W: 1393
R: 2015
W: 1904
R: 1965
W: 760
R: 1207
W: 1981
R: 1103
W: 1753
R: 1008
W: 240
R: 634
W: 220
R: 1803
W: 482
R: 746
W: 336
R: 1943
W: 1918
R: 1934
```

```
W: 455
R: 799
W: 893
R: 539
W: 169
R: 44
W: 1574
R: 88
W: 1250
R: 93
W: 817
R: 595
W: 61
R: 673
W: 513
R: 821
W: 1880
R: 446
W: 1925
R: 1586
W: 1455
R: 117
W: 172
R: 1675
W: 1920
R: 654
W: 373
R: 208
W: 549
R: 243
W: 94
R: 1004
W: 1042
R: 988
W: 1544
R: 1211
W: 1032
R: 1070
W: 1299
R: 235
W: 1163
R: 68
W: 830
R: 1224
W: 742
R: 1343
W: 2046
R: 574
W: 1790
R: 1923
W: 112
R: 1197
W: 2040
R: 284
```

```
W: 824
R: 1912
W: 938
R: 1197
W: 73
R: 1487
W: 1440
R: 167
W: 444
R: 434
W: 1155
R: 1988
W: 1645
R: 140
W: 1010
R: 896
W: 375
R: 125
W: 965
R: 1205
W: 1350
R: 1707
W: 501
R: 1348
W: 233
R: 243
W: 1223
R: 346
W: 1440
R: 1215
W: 630
R: 216
W: 1079
R: 1569
W: 1413
R: 1152
W: 1008
R: 805
W: 1320
R: 1452
W: 1239
R: 427
W: 1392
R: 836
W: 567
R: 354
W: 1732
R: 942
W: 480
R: 649
W: 100
R: 1830
W: 308
R: 601
```

```
W: 1130
R: 542
W: 844
R: 305
W: 888
R: 236
W: 1520
R: 1518
W: 452
R: 551
W: 1039
R: 1865
W: 1704
R: 0
W: 622
R: 976
W: 1452
R: 1861
W: 1403
R: 797
W: 649
R: 1971
W: 1151
R: 333
W: 865
R: 1631
W: 983
R: 965
W: 1413
R: 1291
W: 1566
R: 495
W: 1833
R: 362
W: 800
R: 673
W: 598
R: 272
W: 144
R: 1050
W: 824
R: 1183
W: 867
R: 480
W: 1183
R: 1489
W: 1456
R: 588
W: 1302
R: 811
W: 1385
R: 1951
W: 734
R: 488
```

```
W: 237
R: 1600
W: 72
R: 1220
W: 517
R: 1485
W: 463
R: 36
W: 1981
R: 249
W: 398
R: 733
W: 922
R: 997
W: 1006
R: 1066
W: 2047
R: 1830
W: 202
R: 867
W: 262
R: 1385
W: 308
R: 1718
W: 1973
R: 1611
W: 481
R: 1310
W: 1514
R: 1216
W: 1799
R: 1751
W: 768
R: 1871
W: 923
R: 1285
W: 1308
R: 1387
W: 1321
R: 1241
W: 1636
R: 1720
W: 1975
R: 510
W: 669
R: 933
W: 1577
R: 668
W: 715
R: 1779
W: 1535
R: 977
W: 1116
R: 1844
```

W: 647 R: 1042 W: 1407 R: 1128 W: 304 R: 873 W: 296 R: 55 W: 577 R: 1064 W: 1926 R: 1500 W: 302 R: 1187 W: 839 R: 1623 W: 380 R: 427 W: 1295 R: 307 W: 938 R: 1964 W: 1240 R: 467 W: 585 R: 1955 W: 198 R: 72 W: 884 R: 1314 W: 1916 R: 1531 W: 308 R: 1275 W: 612 R: 613 W: 101 R: 908 W: 668 R: 678 W: 1973 R: 547 W: 130 R: 227 W: 1734 R: 970 W: 1850 R: 66 W: 1397 R: 1098 W: 374 R: 287 W: 1014 R: 1614

```
W: 754
R: 1599
W: 1522
R: 952
W: 1672
R: 358
W: 219
R: 1540
W: 1890
R: 527
W: 768
R: 454
W: 1140
R: 869
W: 1362
R: 1809
W: 1547
R: 1287
W: 308
R: 1677
W: 1514
R: 2042
W: 599
R: 1317
W: 60
R: 1997
W: 367
R: 434
W: 236
```

Output:

```
Address: 0x00001804, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00001174, Set: 0xb, Miss, Tag: 0x000008
Address: 0x00001545, Set: 0xa, Miss, Tag: 0x00000a
Address: 0x00001604, Set: 0x0, Miss, Tag: 0x00000b
Address: 0x00000381, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00001455, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001753, Set: 0xa, Miss, Tag: 0x00000b
Address: 0x00000402, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000503, Set: 0x8, Miss, Tag: 0x000002
Address: 0x00000854, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00001130, Set: 0x9, Miss, Tag: 0x000008
Address: 0x00001091, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00000532, Set: 0x9, Miss, Tag: 0x000002
Address: 0x00000700, Set: 0x8, Miss, Tag: 0x000003
Address: 0x00001729, Set: 0x9, Miss, Tag: 0x00000b
Address: 0x00000667, Set: 0x3, Miss, Tag: 0x000003
Address: 0x00001705, Set: 0x8, Miss, Tag: 0x00000b
Address: 0x00000799, Set: 0xc, Miss, Tag: 0x000003
Address: 0x00001746, Set: 0xa, Hit, Tag: 0x00000b
```

```
Address: 0x00001799, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00000502, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00000205, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000384, Set: 0xc, Hit, Tag: 0x000001
Address: 0x00000719, Set: 0x8, Miss, Tag: 0x000003
Address: 0x00001415, Set: 0x0, Miss, Tag: 0x00000a
Address: 0x00000599, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00000600, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00001599, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00001702, Set: 0x8, Hit, Tag: 0x00000b
Address: 0x00001510, Set: 0x8, Miss, Tag: 0x00000a
Address: 0x00001073, Set: 0x3, Miss, Tag: 0x000008
Address: 0x00001458, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00000636, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000571, Set: 0xb, Miss, Tag: 0x000002
Address: 0x00001014, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00001017, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00002026, Set: 0x1, Miss, Tag: 0x000010
Address: 0x00000719, Set: 0x8, Miss, Tag: 0x000003
Address: 0x00001419, Set: 0x0, Hit, Tag: 0x00000a
Address: 0x00000482, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00001573, Set: 0xb, Miss, Tag: 0x00000a
Address: 0x00000502, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00001573, Set: 0xb, Hit, Tag: 0x00000a
Address: 0x00000057, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00001202, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001254, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00000724, Set: 0x9, Miss, Tag: 0x000003
Address: 0x00000860, Set: 0x3, Miss, Tag: 0x000004
Address: 0x00000005, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000423, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000611, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000508, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00000628, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000996, Set: 0xc, Miss, Tag: 0x000004
Address: 0x00001227, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00002044, Set: 0x2, Miss, Tag: 0x000010
Address: 0x00001595, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00001827, Set: 0x1, Miss, Tag: 0x00000c
Address: 0x00001595, Set: 0xc, Hit, Tag: 0x00000a
Address: 0x00001249, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00001289, Set: 0x4, Miss, Tag: 0x000009
Address: 0x00000620, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000659, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00001925, Set: 0x9, Miss, Tag: 0x00000c
Address: 0x00001191, Set: 0xc, Miss, Tag: 0x000008
Address: 0x00001673, Set: 0x3, Miss, Tag: 0x00000b
Address: 0x00000894, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00001170, Set: 0xb, Miss, Tag: 0x000008
Address: 0x00000344, Set: 0xa, Miss, Tag: 0x000001
Address: 0x00000266, Set: 0x3, Miss, Tag: 0x000001
Address: 0x00001652, Set: 0x2, Miss, Tag: 0x00000b
Address: 0x00001917, Set: 0x8, Miss, Tag: 0x00000c
Address: 0x00000768, Set: 0xb, Miss, Tag: 0x000003
```

```
Address: 0x00001177, Set: 0xb, Miss, Tag: 0x000008
Address: 0x00001974, Set: 0xb, Miss, Tag: 0x00000c
Address: 0x00001970, Set: 0xb, Hit, Tag: 0x00000c
Address: 0x00000383, Set: 0xc, Hit, Tag: 0x000001
Address: 0x00000650, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000782, Set: 0xc, Miss, Tag: 0x000003
Address: 0x00000389, Set: 0xc, Hit, Tag: 0x000001
Address: 0x00001073, Set: 0x3, Hit, Tag: 0x000008
Address: 0x00001394, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00000897, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00001702, Set: 0x8, Hit, Tag: 0x00000b
Address: 0x00000342, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00000076, Set: 0x3, Miss, Tag: 0x000000
Address: 0x00001698, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00001937, Set: 0x9, Miss, Tag: 0x00000c
Address: 0x00001904, Set: 0x8, Miss, Tag: 0x00000c
Address: 0x00001245, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00001138, Set: 0x9, Hit, Tag: 0x000008
Address: 0x00001145, Set: 0xa, Miss, Tag: 0x000008
Address: 0x00001865, Set: 0x3, Miss, Tag: 0x00000c
Address: 0x00001797, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00001023, Set: 0x1, Miss, Tag: 0x000008
Address: 0x00001009, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001422, Set: 0x1, Miss, Tag: 0x00000a
Address: 0x00001917, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00000131, Set: 0x9, Miss, Tag: 0x000000
Address: 0x00001766, Set: 0xb, Miss, Tag: 0x00000b
Address: 0x00000135, Set: 0x9, Hit, Tag: 0x000000
Address: 0x00001783, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00001635, Set: 0x1, Miss, Tag: 0x00000b
Address: 0x00000903, Set: 0x8, Miss, Tag: 0x000004
Address: 0x00000912, Set: 0x8, Miss, Tag: 0x000004
Address: 0x00001561, Set: 0xb, Hit, Tag: 0x00000a
Address: 0x00000826, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00001295, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00000163, Set: 0xb, Miss, Tag: 0x000000
Address: 0x00001608, Set: 0x0, Miss, Tag: 0x00000b
Address: 0x00001684, Set: 0x4, Hit, Tag: 0x00000b
Address: 0x00001237, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00000954, Set: 0xa, Miss, Tag: 0x000004
Address: 0x00000533, Set: 0x9, Hit, Tag: 0x000002
Address: 0x00000891, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00001296, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00000610, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000541, Set: 0xa, Miss, Tag: 0x000002
Address: 0x000001185, Set: 0xc, Hit, Tag: 0x000008
Address: 0x00000466, Set: 0x3, Miss, Tag: 0x000002
Address: 0x00001786, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00000275, Set: 0x3, Miss, Tag: 0x000001
Address: 0x00001611, Set: 0x0, Miss, Tag: 0x00000b
Address: 0x00001603, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00000024, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000586, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00000564, Set: 0xb, Miss, Tag: 0x000002
```

```
Address: 0x00001446, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00000456, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000695, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00001164, Set: 0xb, Miss, Tag: 0x000008
Address: 0x00000591, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00000430, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000751, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00001495, Set: 0x4, Miss, Tag: 0x00000a
Address: 0x00001342, Set: 0xa, Miss, Tag: 0x000009
Address: 0x00000264, Set: 0x3, Miss, Tag: 0x000001
Address: 0x00000273, Set: 0x3, Hit, Tag: 0x000001
Address: 0x00000590, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00000428, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001881, Set: 0x4, Miss, Tag: 0x00000c
Address: 0x00000226, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00001665, Set: 0x3, Miss, Tag: 0x00000b
Address: 0x00000788, Set: 0xc, Hit, Tag: 0x000003
Address: 0x00000760, Set: 0xb, Miss, Tag: 0x000003
Address: 0x00000508, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00000036, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00001370, Set: 0xb, Miss, Tag: 0x000009
Address: 0x00001049, Set: 0x2, Miss, Tag: 0x000008
Address: 0x00001222, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00001836, Set: 0x1, Miss, Tag: 0x00000c
Address: 0x00000787, Set: 0xc, Hit, Tag: 0x000003
Address: 0x00001497, Set: 0x4, Hit, Tag: 0x000000a
Address: 0x00001399, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00000342, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00001522, Set: 0x9, Miss, Tag: 0x00000a
Address: 0x00001986, Set: 0xc, Miss, Tag: 0x00000c
Address: 0x00000907, Set: 0x8, Hit, Tag: 0x000004
Address: 0x00000920, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00000394, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00001602, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00000037, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000985, Set: 0xc, Miss, Tag: 0x000004
Address: 0x00002033, Set: 0x1, Miss, Tag: 0x000010
Address: 0x00000788, Set: 0xc, Miss, Tag: 0x000003
Address: 0x00000432, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001327, Set: 0x9, Miss, Tag: 0x000009
Address: 0x00001053, Set: 0x2, Hit, Tag: 0x000008
Address: 0x00000705, Set: 0x8, Miss, Tag: 0x000003
Address: 0x00001917, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00001481, Set: 0x4, Hit, Tag: 0x00000a
Address: 0x00000539, Set: 0x9, Miss, Tag: 0x000002
Address: 0x00000096, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00001098, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00001327, Set: 0x9, Hit, Tag: 0x000009
Address: 0x00000856, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00001606, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00001363, Set: 0xb, Miss, Tag: 0x000009
Address: 0x00000178, Set: 0xb, Hit, Tag: 0x000000
Address: 0x00000607, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000537, Set: 0x9, Miss, Tag: 0x000002
```

```
Address: 0x00002014, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00001394, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00002035, Set: 0x1, Miss, Tag: 0x000010
Address: 0x00001365, Set: 0xb, Miss, Tag: 0x000009
Address: 0x00001736, Set: 0x9, Miss, Tag: 0x00000b
Address: 0x00001509, Set: 0x8, Miss, Tag: 0x00000a
Address: 0x00001303, Set: 0x8, Miss, Tag: 0x000009
Address: 0x00000595, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00000381, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00001697, Set: 0x4, Hit, Tag: 0x00000b
Address: 0x00000150, Set: 0xa, Miss, Tag: 0x000000
Address: 0x00000418, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000635, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000135, Set: 0x9, Hit, Tag: 0x000000
Address: 0x00001207, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001067, Set: 0x3, Hit, Tag: 0x000008
Address: 0x00001462, Set: 0x3, Miss, Tag: 0x00000a
Address: 0x00000212, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00001773, Set: 0xb, Miss, Tag: 0x00000b
Address: 0x00001332, Set: 0x9, Hit, Tag: 0x000009
Address: 0x00001693, Set: 0x4, Hit, Tag: 0x00000b
Address: 0x00000264, Set: 0x3, Hit, Tag: 0x000001
Address: 0x00001428, Set: 0x1, Miss, Tag: 0x00000a
Address: 0x00000743, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00001591, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00000236, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000301, Set: 0x8, Miss, Tag: 0x000001
Address: 0x00000906, Set: 0x8, Hit, Tag: 0x000004
Address: 0x00000414, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000908, Set: 0x8, Hit, Tag: 0x000004
Address: 0x00001444, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00000380, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00000254, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00001431, Set: 0x1, Miss, Tag: 0x00000a
Address: 0x00001745, Set: 0xa, Hit, Tag: 0x00000b
Address: 0x00001990, Set: 0xc, Miss, Tag: 0x00000c
Address: 0x00000892, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00001001, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000538, Set: 0x9, Hit, Tag: 0x000002
Address: 0x00001273, Set: 0x3, Miss, Tag: 0x000009
Address: 0x00000650, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000688, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00001692, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00001285, Set: 0x4, Miss, Tag: 0x000009
Address: 0x00000823, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000851, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000305, Set: 0x8, Miss, Tag: 0x000001
Address: 0x00000237, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00001063, Set: 0x3, Miss, Tag: 0x000008
Address: 0x00000030, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00001569, Set: 0xb, Miss, Tag: 0x00000a
Address: 0x00000708, Set: 0x8, Hit, Tag: 0x000003
Address: 0x00000294, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000949, Set: 0xa, Hit, Tag: 0x000004
```

```
Address: 0x00001451, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001885, Set: 0x4, Hit, Tag: 0x00000c
Address: 0x00001185, Set: 0xc, Miss, Tag: 0x000008
Address: 0x00001752, Set: 0xa, Hit, Tag: 0x00000b
Address: 0x00000743, Set: 0xa, Hit, Tag: 0x000003
Address: 0x00001599, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00000612, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000139, Set: 0x9, Hit, Tag: 0x000000
Address: 0x00001979, Set: 0xb, Miss, Tag: 0x00000c
Address: 0x00000866, Set: 0x3, Miss, Tag: 0x000004
Address: 0x00001570, Set: 0xb, Miss, Tag: 0x000000a
Address: 0x00001677, Set: 0x3, Hit, Tag: 0x00000b
Address: 0x00000808, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000414, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000630, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00001346, Set: 0xa, Miss, Tag: 0x000009
Address: 0x00001688, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00001280, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00002034, Set: 0x1, Miss, Tag: 0x000010
Address: 0x00001332, Set: 0x9, Hit, Tag: 0x000009
Address: 0x00000518, Set: 0x8, Miss, Tag: 0x000002
Address: 0x00000809, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000135, Set: 0x9, Hit, Tag: 0x000000
Address: 0x00000823, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00001047, Set: 0x2, Hit, Tag: 0x000008
Address: 0x00001198, Set: 0xc, Miss, Tag: 0x000008
Address: 0x00000853, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000568, Set: 0xb, Hit, Tag: 0x000002
Address: 0x00001906, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00001147, Set: 0xa, Miss, Tag: 0x000008
Address: 0x00001518, Set: 0x8, Hit, Tag: 0x00000a
Address: 0x00001309, Set: 0x8, Miss, Tag: 0x000009
Address: 0x00000984, Set: 0xc, Miss, Tag: 0x000004
Address: 0x00000655, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00001013, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001727, Set: 0x9, Miss, Tag: 0x00000b
Address: 0x00000207, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001625, Set: 0x1, Miss, Tag: 0x00000b
Address: 0x00001867, Set: 0x3, Miss, Tag: 0x00000c
Address: 0x00000138, Set: 0x9, Miss, Tag: 0x000000
Address: 0x00000443, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00001389, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00001815, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00001251, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00001804, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00000397, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00000550, Set: 0xa, Miss, Tag: 0x000002
Address: 0x00001444, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001678, Set: 0x3, Hit, Tag: 0x00000b
Address: 0x00000536, Set: 0x9, Hit, Tag: 0x000002
Address: 0x00000728, Set: 0x9, Miss, Tag: 0x000003
Address: 0x00000148, Set: 0xa, Miss, Tag: 0x000000
Address: 0x00001346, Set: 0xa, Hit, Tag: 0x000009
Address: 0x00000863, Set: 0x3, Hit, Tag: 0x000004
```

```
Address: 0x00000971, Set: 0xb, Miss, Tag: 0x000004
Address: 0x00000345, Set: 0xa, Miss, Tag: 0x000001
Address: 0x00000013, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001824, Set: 0x1, Miss, Tag: 0x00000c
Address: 0x00000913, Set: 0x8, Hit, Tag: 0x000004
Address: 0x00001919, Set: 0x8, Miss, Tag: 0x00000c
Address: 0x00000923, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00000383, Set: 0xc, Hit, Tag: 0x000001
Address: 0x00001180, Set: 0xc, Hit, Tag: 0x000008
Address: 0x00001907, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00001039, Set: 0x1, Miss, Tag: 0x000008
Address: 0x00000145, Set: 0xa, Hit, Tag: 0x000000
Address: 0x00001586, Set: 0xc, Hit, Tag: 0x000000a
Address: 0x00001246, Set: 0x2, Hit, Tag: 0x000009
Address: 0x00001770, Set: 0xb, Miss, Tag: 0x00000b
Address: 0x00001405, Set: 0x0, Miss, Tag: 0x00000a
Address: 0x00001384, Set: 0xc, Hit, Tag: 0x000009
Address: 0x00000165, Set: 0xb, Miss, Tag: 0x000000
Address: 0x00000747, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00001152, Set: 0xa, Hit, Tag: 0x000008
Address: 0x00001416, Set: 0x0, Hit, Tag: 0x00000a
Address: 0x00000503, Set: 0x8, Miss, Tag: 0x000002
Address: 0x00001549, Set: 0xa, Miss, Tag: 0x00000a
Address: 0x00001966, Set: 0xb, Miss, Tag: 0x00000c
Address: 0x00001947, Set: 0xa, Miss, Tag: 0x00000c
Address: 0x00001179, Set: 0xb, Miss, Tag: 0x000008
Address: 0x00000455, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000627, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00001327, Set: 0x9, Hit, Tag: 0x000009
Address: 0x00001801, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00001490, Set: 0x4, Miss, Tag: 0x00000a
Address: 0x00000250, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000098, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00001503, Set: 0x8, Hit, Tag: 0x00000a
Address: 0x00000026, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00001011, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001374, Set: 0xb, Hit, Tag: 0x000009
Address: 0x00000949, Set: 0xa, Miss, Tag: 0x000004
Address: 0x00001395, Set: 0xc, Hit, Tag: 0x000009
Address: 0x00000506, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00000808, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000386, Set: 0xc, Hit, Tag: 0x000001
Address: 0x00000651, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000347, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00001632, Set: 0x1, Hit, Tag: 0x00000b
Address: 0x00000373, Set: 0xb, Miss, Tag: 0x000001
Address: 0x00001752, Set: 0xa, Miss, Tag: 0x00000b
Address: 0x00000968, Set: 0xb, Miss, Tag: 0x000004
Address: 0x00000538, Set: 0x9, Hit, Tag: 0x000002
Address: 0x00000451, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000072, Set: 0x3, Miss, Tag: 0x000000
Address: 0x00001954, Set: 0xa, Miss, Tag: 0x00000c
Address: 0x000000954, Set: 0xa, Hit, Tag: 0x000004
Address: 0x00001622, Set: 0x1, Hit, Tag: 0x00000b
```

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Address: 0x00001873, Set: 0x3, Miss, Tag: 0x00000c
Address: 0x00000853, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000753, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00000280, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00001480, Set: 0x4, Miss, Tag: 0x00000a
Address: 0x00000033, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00000033, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000922, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00000283, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00000131, Set: 0x9, Hit, Tag: 0x000000
Address: 0x00000377, Set: 0xb, Hit, Tag: 0x000001
Address: 0x00000310, Set: 0x8, Miss, Tag: 0x000001
Address: 0x00001142, Set: 0xa, Miss, Tag: 0x000008
Address: 0x00001751, Set: 0xa, Miss, Tag: 0x00000b
Address: 0x00001259, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00000489, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000209, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000020, Set: 0x1, Hit, Tag: 0x000000
Address: 0x000000875, Set: 0x3, Hit, Tag: 0x000004
Address: 0x00000860, Set: 0x3, Hit, Tag: 0x000004
Address: 0x00000367, Set: 0xb, Hit, Tag: 0x000001
Address: 0x00000459, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00001233, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00000071, Set: 0x3, Miss, Tag: 0x000000
Address: 0x00001428, Set: 0x1, Miss, Tag: 0x00000a
Address: 0x00001771, Set: 0xb, Miss, Tag: 0x00000b
Address: 0x00000523, Set: 0x9, Hit, Tag: 0x000002
Address: 0x00001500, Set: 0x8, Miss, Tag: 0x00000a
Address: 0x00001678, Set: 0x3, Hit, Tag: 0x00000b
Address: 0x00001477, Set: 0x3, Miss, Tag: 0x00000a
Address: 0x00001074, Set: 0x3, Miss, Tag: 0x000008
Address: 0x00001503, Set: 0x8, Hit, Tag: 0x000000a
Address: 0x00000283, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00001828, Set: 0x1, Hit, Tag: 0x00000c
Address: 0x00001783, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00001763, Set: 0xb, Hit, Tag: 0x00000b
Address: 0x00001861, Set: 0x3, Miss, Tag: 0x00000c
Address: 0x00001816, Set: 0x0, Hit, Tag: 0x00000c
Address: 0x00000638, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000096, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00001947, Set: 0xa, Hit, Tag: 0x00000c
Address: 0x00001015, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000406, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001041, Set: 0x2, Miss, Tag: 0x000008
Address: 0x00000719, Set: 0x8, Miss, Tag: 0x000003
Address: 0x00001666, Set: 0x3, Miss, Tag: 0x00000b
Address: 0x00001531, Set: 0x9, Miss, Tag: 0x00000a
Address: 0x00000928, Set: 0x9, Hit, Tag: 0x000004
Address: 0x00001686, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00000358, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00001789, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00000005, Set: 0x0, Miss, Tag: 0x000000
Address: 0x000000818, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000974, Set: 0xb, Hit, Tag: 0x000004
```

```
Address: 0x00000076, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00000198, Set: 0xc, Miss, Tag: 0x000000
Address: 0x00000698, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000599, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00001698, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00000328, Set: 0x9, Miss, Tag: 0x000001
Address: 0x00000029, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000725, Set: 0x9, Miss, Tag: 0x000003
Address: 0x00001831, Set: 0x1, Hit, Tag: 0x00000c
Address: 0x00000312, Set: 0x8, Hit, Tag: 0x000001
Address: 0x00000505, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00001566, Set: 0xb, Miss, Tag: 0x00000a
Address: 0x00000027, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000318, Set: 0x8, Hit, Tag: 0x000001
Address: 0x00001334, Set: 0x9, Miss, Tag: 0x000009
Address: 0x00000665, Set: 0x3, Miss, Tag: 0x000003
Address: 0x00000414, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001233, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00001681, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00000821, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000226, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000352, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00000439, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00001757, Set: 0xa, Hit, Tag: 0x00000b
Address: 0x00001280, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00000077, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00000068, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00001021, Set: 0x1, Miss, Tag: 0x000008
Address: 0x00000082, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000886, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00001996, Set: 0xc, Miss, Tag: 0x00000c
Address: 0x00000158, Set: 0xa, Miss, Tag: 0x000000
Address: 0x00001084, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00000646, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00000758, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00000734, Set: 0x9, Hit, Tag: 0x000003
Address: 0x00000974, Set: 0xb, Hit, Tag: 0x000004
Address: 0x00000787, Set: 0xc, Miss, Tag: 0x000003
Address: 0x00001459, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00000757, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00001099, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00001964, Set: 0xb, Miss, Tag: 0x00000c
Address: 0x00000275, Set: 0x3, Miss, Tag: 0x000001
Address: 0x00001126, Set: 0x9, Miss, Tag: 0x000008
Address: 0x00000234, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00001609, Set: 0x0, Miss, Tag: 0x00000b
Address: 0x00001792, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00000649, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000794, Set: 0xc, Hit, Tag: 0x000003
Address: 0x00001425, Set: 0x1, Miss, Tag: 0x00000a
Address: 0x00001470, Set: 0x3, Hit, Tag: 0x00000a
Address: 0x00001020, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001777, Set: 0xb, Hit, Tag: 0x00000b
Address: 0x00001909, Set: 0x8, Hit, Tag: 0x00000c
```

```
Address: 0x00000730, Set: 0x9, Hit, Tag: 0x000003
Address: 0x00001009, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00001986, Set: 0xc, Miss, Tag: 0x00000c
Address: 0x00000798, Set: 0xc, Hit, Tag: 0x000003
Address: 0x00002031, Set: 0x1, Miss, Tag: 0x000010
Address: 0x00000020, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00001684, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00001979, Set: 0xb, Hit, Tag: 0x00000c
Address: 0x00000178, Set: 0xb, Miss, Tag: 0x000000
Address: 0x00000720, Set: 0x9, Hit, Tag: 0x000003
Address: 0x00000577, Set: 0xb, Miss, Tag: 0x000002
Address: 0x00000936, Set: 0x9, Hit, Tag: 0x000004
Address: 0x00001454, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001551, Set: 0xa, Miss, Tag: 0x00000a
Address: 0x00001723, Set: 0x9, Miss, Tag: 0x00000b
Address: 0x00000866, Set: 0x3, Miss, Tag: 0x000004
Address: 0x00000260, Set: 0x3, Miss, Tag: 0x000001
Address: 0x00000774, Set: 0xb, Miss, Tag: 0x000003
Address: 0x00000782, Set: 0xc, Hit, Tag: 0x000003
Address: 0x00000535, Set: 0x9, Miss, Tag: 0x000002
Address: 0x00001901, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00001017, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000096, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00001645, Set: 0x2, Miss, Tag: 0x00000b
Address: 0x00001666, Set: 0x3, Hit, Tag: 0x00000b
Address: 0x00000890, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00001022, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001088, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00001910, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00000751, Set: 0xa, Hit, Tag: 0x000003
Address: 0x00000949, Set: 0xa, Miss, Tag: 0x000004
Address: 0x00000592, Set: 0xc, Hit, Tag: 0x000002
Address: 0x00001760, Set: 0xb, Hit, Tag: 0x00000b
Address: 0x00000887, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00001390, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00001743, Set: 0xa, Hit, Tag: 0x00000b
Address: 0x00000907, Set: 0x8, Miss, Tag: 0x000004
Address: 0x00001026, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001674, Set: 0x3, Hit, Tag: 0x00000b
Address: 0x00001085, Set: 0x4, Hit, Tag: 0x000008
Address: 0x00001746, Set: 0xa, Hit, Tag: 0x00000b
Address: 0x00000203, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00002022, Set: 0x1, Miss, Tag: 0x000010
Address: 0x00001153, Set: 0xa, Miss, Tag: 0x000008
Address: 0x00001754, Set: 0xa, Miss, Tag: 0x00000b
Address: 0x00001697, Set: 0x4, Miss, Tag: 0x00000b
Address: 0x00002019, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00002014, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00000424, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000753, Set: 0xa, Hit, Tag: 0x000003
Address: 0x00000501, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00000277, Set: 0x3, Miss, Tag: 0x000001
Address: 0x00001770, Set: 0xb, Hit, Tag: 0x00000b
Address: 0x00000597, Set: 0xc, Hit, Tag: 0x000002
```

```
Address: 0x00001922, Set: 0x9, Miss, Tag: 0x00000c
Address: 0x00001388, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00001487, Set: 0x4, Miss, Tag: 0x00000a
Address: 0x00000896, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000428, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00001350, Set: 0xa, Miss, Tag: 0x000009
Address: 0x00001647, Set: 0x2, Hit, Tag: 0x00000b
Address: 0x00001377, Set: 0xb, Miss, Tag: 0x000009
Address: 0x00001942, Set: 0xa, Miss, Tag: 0x00000c
Address: 0x00001359, Set: 0xa, Hit, Tag: 0x000009
Address: 0x00000216, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001285, Set: 0x4, Miss, Tag: 0x000009
Address: 0x00001055, Set: 0x2, Hit, Tag: 0x000008
Address: 0x00001123, Set: 0x9, Hit, Tag: 0x000008
Address: 0x00000263, Set: 0x3, Hit, Tag: 0x000001
Address: 0x00000681, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000161, Set: 0xb, Miss, Tag: 0x000000
Address: 0x000002010, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000885, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000135, Set: 0x9, Miss, Tag: 0x000000
Address: 0x00001115, Set: 0x8, Miss, Tag: 0x000008
Address: 0x00000591, Set: 0xc, Hit, Tag: 0x000002
Address: 0x00001832, Set: 0x1, Miss, Tag: 0x00000c
Address: 0x00001086, Set: 0x4, Hit, Tag: 0x000008
Address: 0x00000558, Set: 0xa, Miss, Tag: 0x000002
Address: 0x00000208, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001839, Set: 0x1, Miss, Tag: 0x00000c
Address: 0x00001059, Set: 0x2, Hit, Tag: 0x000008
Address: 0x00000485, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00001562, Set: 0xb, Hit, Tag: 0x00000a
Address: 0x00001657, Set: 0x2, Hit, Tag: 0x00000b
Address: 0x00000359, Set: 0xa, Miss, Tag: 0x000001
Address: 0x00000902, Set: 0x8, Miss, Tag: 0x000004
Address: 0x00001096, Set: 0x4, Hit, Tag: 0x000008
Address: 0x00001255, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00001331, Set: 0x9, Miss, Tag: 0x000009
Address: 0x00000398, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00000854, Set: 0x2, Hit, Tag: 0x000004
Address: 0x00000660, Set: 0x3, Hit, Tag: 0x000003
Address: 0x00000293, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000166, Set: 0xb, Miss, Tag: 0x000000
Address: 0x000000877, Set: 0x3, Hit, Tag: 0x000004
Address: 0x00001578, Set: 0xb, Hit, Tag: 0x00000a
Address: 0x00001221, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00002000, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001841, Set: 0x2, Miss, Tag: 0x00000c
Address: 0x00001902, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00000113, Set: 0x8, Miss, Tag: 0x000000
Address: 0x00001803, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00000739, Set: 0x9, Miss, Tag: 0x000003
Address: 0x00000248, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000870, Set: 0x3, Hit, Tag: 0x000004
Address: 0x00001331, Set: 0x9, Hit, Tag: 0x000009
Address: 0x00000033, Set: 0x1, Hit, Tag: 0x000000
```

```
Address: 0x00001956, Set: 0xa, Miss, Tag: 0x00000c
Address: 0x00001889, Set: 0x4, Miss, Tag: 0x00000c
Address: 0x00000241, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00001748, Set: 0xa, Miss, Tag: 0x00000b
Address: 0x00000900, Set: 0x8, Miss, Tag: 0x000004
Address: 0x00000727, Set: 0x9, Hit, Tag: 0x000003
Address: 0x00001262, Set: 0x3, Miss, Tag: 0x000009
Address: 0x00000509, Set: 0x8, Hit, Tag: 0x000002
Address: 0x00001086, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00000116, Set: 0x8, Hit, Tag: 0x000000
Address: 0x00001606, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00000294, Set: 0x4, Hit, Tag: 0x000001
Address: 0x00001447, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00002004, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001148, Set: 0xa, Hit, Tag: 0x000008
Address: 0x00000060, Set: 0x3, Miss, Tag: 0x000000
Address: 0x00000249, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00001314, Set: 0x8, Miss, Tag: 0x000009
Address: 0x00000937, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00001827, Set: 0x1, Miss, Tag: 0x00000c
Address: 0x00000487, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000889, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00001621, Set: 0x1, Miss, Tag: 0x00000b
Address: 0x00000342, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00001003, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001376, Set: 0xb, Hit, Tag: 0x000009
Address: 0x00001081, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00001251, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00000199, Set: 0xc, Hit, Tag: 0x000000
Address: 0x00000364, Set: 0xb, Miss, Tag: 0x000001
Address: 0x00001284, Set: 0x4, Miss, Tag: 0x000009
Address: 0x00000107, Set: 0x8, Hit, Tag: 0x000000
Address: 0x00000205, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001526, Set: 0x9, Miss, Tag: 0x000000a
Address: 0x00001855, Set: 0x2, Hit, Tag: 0x00000c
Address: 0x00001106, Set: 0x8, Miss, Tag: 0x000008
Address: 0x00000205, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001069, Set: 0x3, Miss, Tag: 0x000008
Address: 0x00001615, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00001291, Set: 0x4, Miss, Tag: 0x000009
Address: 0x00001186, Set: 0xc, Miss, Tag: 0x000008
Address: 0x00001173, Set: 0xb, Miss, Tag: 0x000008
Address: 0x00001585, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00000585, Set: 0xc, Hit, Tag: 0x000002
Address: 0x00001130, Set: 0x9, Miss, Tag: 0x000008
Address: 0x00000686, Set: 0x4, Miss, Tag: 0x000003
Address: 0x00000645, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00001379, Set: 0xb, Hit, Tag: 0x000009
Address: 0x00002000, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001582, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00001159, Set: 0xa, Hit, Tag: 0x000008
Address: 0x00000440, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000424, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000732, Set: 0x9, Hit, Tag: 0x000003
```

```
Address: 0x00000782, Set: 0xc, Hit, Tag: 0x000003
Address: 0x00001427, Set: 0x1, Hit, Tag: 0x00000a
Address: 0x00000060, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00001863, Set: 0x3, Miss, Tag: 0x00000c
Address: 0x00000630, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000259, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000180, Set: 0xc, Miss, Tag: 0x000000
Address: 0x00001915, Set: 0x8, Miss, Tag: 0x00000c
Address: 0x00000367, Set: 0xb, Hit, Tag: 0x000001
Address: 0x00000385, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00001393, Set: 0xc, Hit, Tag: 0x000009
Address: 0x00000174, Set: 0xb, Miss, Tag: 0x000000
Address: 0x00001491, Set: 0x4, Miss, Tag: 0x00000a
Address: 0x00001598, Set: 0xc, Hit, Tag: 0x000000a
Address: 0x00001244, Set: 0x2, Hit, Tag: 0x000009
Address: 0x00001059, Set: 0x2, Miss, Tag: 0x000008
Address: 0x00000841, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000382, Set: 0xc, Hit, Tag: 0x000001
Address: 0x00000184, Set: 0xc, Miss, Tag: 0x000000
Address: 0x00000379, Set: 0xb, Hit, Tag: 0x000001
Address: 0x00000967, Set: 0xb, Miss, Tag: 0x000004
Address: 0x00001314, Set: 0x8, Hit, Tag: 0x000009
Address: 0x00001065, Set: 0x3, Hit, Tag: 0x000008
Address: 0x00001613, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00000646, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00001017, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001147, Set: 0xa, Hit, Tag: 0x000008
Address: 0x00001805, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00001457, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001571, Set: 0xb, Miss, Tag: 0x00000a
Address: 0x00000489, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000191, Set: 0xc, Miss, Tag: 0x000000
Address: 0x00000950, Set: 0xa, Miss, Tag: 0x000004
Address: 0x00000549, Set: 0xa, Miss, Tag: 0x000002
Address: 0x00000007, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001581, Set: 0xc, Hit, Tag: 0x000000a
Address: 0x00000809, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000187, Set: 0xc, Hit, Tag: 0x000000
Address: 0x00001448, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001176, Set: 0xb, Hit, Tag: 0x000008
Address: 0x00000572, Set: 0xb, Miss, Tag: 0x000002
Address: 0x00000793, Set: 0xc, Miss, Tag: 0x000003
Address: 0x00001350, Set: 0xa, Hit, Tag: 0x000009
Address: 0x00000016, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000343, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00000546, Set: 0xa, Hit, Tag: 0x000002
Address: 0x00001075, Set: 0x3, Hit, Tag: 0x000008
Address: 0x00001184, Set: 0xc, Miss, Tag: 0x000008
Address: 0x00000928, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00001259, Set: 0x2, Hit, Tag: 0x000009
Address: 0x00001563, Set: 0xb, Hit, Tag: 0x00000a
Address: 0x00001896, Set: 0x4, Hit, Tag: 0x00000c
Address: 0x00000526, Set: 0x9, Miss, Tag: 0x000002
Address: 0x00000580, Set: 0xc, Miss, Tag: 0x000002
```

```
Address: 0x00001461, Set: 0x3, Miss, Tag: 0x00000a
Address: 0x00001172, Set: 0xb, Hit, Tag: 0x000008
Address: 0x00001598, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00000560, Set: 0xb, Miss, Tag: 0x000002
Address: 0x00000929, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00001007, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000084, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00001418, Set: 0x0, Miss, Tag: 0x00000a
Address: 0x00001199, Set: 0xc, Hit, Tag: 0x000008
Address: 0x00001034, Set: 0x1, Miss, Tag: 0x000008
Address: 0x00001967, Set: 0xb, Miss, Tag: 0x00000c
Address: 0x00001206, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00000567, Set: 0xb, Hit, Tag: 0x000002
Address: 0x00000728, Set: 0x9, Hit, Tag: 0x000003
Address: 0x00001393, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00002015, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00001904, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00001965, Set: 0xb, Miss, Tag: 0x00000c
Address: 0x00000760, Set: 0xb, Miss, Tag: 0x000003
Address: 0x00001207, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001981, Set: 0xc, Miss, Tag: 0x00000c
Address: 0x00001103, Set: 0x8, Hit, Tag: 0x000008
Address: 0x00001753, Set: 0xa, Hit, Tag: 0x00000b
Address: 0x00001008, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000240, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000634, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000220, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00001803, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00000482, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000746, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00000336, Set: 0x9, Miss, Tag: 0x000001
Address: 0x00001943, Set: 0xa, Miss, Tag: 0x00000c
Address: 0x00001918, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00001934, Set: 0x9, Miss, Tag: 0x00000c
Address: 0x00000455, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00000799, Set: 0xc, Hit, Tag: 0x000003
Address: 0x00000893, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00000539, Set: 0x9, Miss, Tag: 0x000002
Address: 0x00000169, Set: 0xb, Hit, Tag: 0x000000
Address: 0x00000044, Set: 0x2, Miss, Tag: 0x000000
Address: 0x000001574, Set: 0xb, Hit, Tag: 0x000000a
Address: 0x00000088, Set: 0x4, Miss, Tag: 0x000000
Address: 0x00001250, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00000093, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00000817, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000595, Set: 0xc, Hit, Tag: 0x000002
Address: 0x00000061, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00000673, Set: 0x3, Miss, Tag: 0x000003
Address: 0x00000513, Set: 0x8, Miss, Tag: 0x000002
Address: 0x00000821, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00001880, Set: 0x4, Miss, Tag: 0x00000c
Address: 0x00000446, Set: 0x2, Hit, Tag: 0x000002
Address: 0x00001925, Set: 0x9, Hit, Tag: 0x00000c
Address: 0x00001586, Set: 0xc, Miss, Tag: 0x000000a
```

```
Address: 0x00001455, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00000117, Set: 0x8, Hit, Tag: 0x000000
Address: 0x00000172, Set: 0xb, Hit, Tag: 0x000000
Address: 0x00001675, Set: 0x3, Miss, Tag: 0x00000b
Address: 0x00001920, Set: 0x9, Hit, Tag: 0x00000c
Address: 0x00000654, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00000373, Set: 0xb, Miss, Tag: 0x000001
Address: 0x00000208, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000549, Set: 0xa, Hit, Tag: 0x000002
Address: 0x00000243, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00000094, Set: 0x4, Hit, Tag: 0x000000
Address: 0x00001004, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00001042, Set: 0x2, Hit, Tag: 0x000008
Address: 0x00000988, Set: 0xc, Miss, Tag: 0x000004
Address: 0x00001544, Set: 0xa, Miss, Tag: 0x00000a
Address: 0x00001211, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001032, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001070, Set: 0x3, Hit, Tag: 0x000008
Address: 0x00001299, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00000235, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00001163, Set: 0xb, Miss, Tag: 0x000008
Address: 0x00000068, Set: 0x3, Miss, Tag: 0x000000
Address: 0x00000830, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00001224, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00000742, Set: 0xa, Hit, Tag: 0x000003
Address: 0x00001343, Set: 0xa, Miss, Tag: 0x000009
Address: 0x00002046, Set: 0x2, Miss, Tag: 0x000010
Address: 0x00000574, Set: 0xb, Hit, Tag: 0x000002
Address: 0x00001790, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00001923, Set: 0x9, Hit, Tag: 0x00000c
Address: 0x00000112, Set: 0x8, Hit, Tag: 0x000000
Address: 0x00001197, Set: 0xc, Hit, Tag: 0x000008
Address: 0x00002040, Set: 0x2, Miss, Tag: 0x000010
Address: 0x00000284, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000824, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00001912, Set: 0x8, Hit, Tag: 0x00000c
Address: 0x00000938, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00001197, Set: 0xc, Hit, Tag: 0x000008
Address: 0x00000073, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00001487, Set: 0x4, Miss, Tag: 0x00000a
Address: 0x00001440, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00000167, Set: 0xb, Hit, Tag: 0x000000
Address: 0x00000444, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000434, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00001155, Set: 0xa, Miss, Tag: 0x000008
Address: 0x00001988, Set: 0xc, Miss, Tag: 0x00000c
Address: 0x00001645, Set: 0x2, Miss, Tag: 0x00000b
Address: 0x00000140, Set: 0xa, Miss, Tag: 0x000000
Address: 0x00001010, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000896, Set: 0x4, Miss, Tag: 0x000004
Address: 0x00000375, Set: 0xb, Miss, Tag: 0x000001
Address: 0x00000125, Set: 0x9, Miss, Tag: 0x000000
Address: 0x00000965, Set: 0xb, Miss, Tag: 0x000004
Address: 0x00001205, Set: 0x0, Hit, Tag: 0x000009
```

```
Address: 0x00001350, Set: 0xa, Hit, Tag: 0x000009
Address: 0x00001707, Set: 0x8, Miss, Tag: 0x00000b
Address: 0x00000501, Set: 0x8, Miss, Tag: 0x000002
Address: 0x00001348, Set: 0xa, Hit, Tag: 0x000009
Address: 0x000000233, Set: 0x1, Hit, Tag: 0x000001
Address: 0x000000243, Set: 0x2, Hit, Tag: 0x000001
Address: 0x00001223, Set: 0x1, Hit, Tag: 0x000009
Address: 0x00000346, Set: 0xa, Miss, Tag: 0x000001
Address: 0x00001440, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001215, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000630, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000216, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001079, Set: 0x3, Miss, Tag: 0x000008
Address: 0x00001569, Set: 0xb, Hit, Tag: 0x000000a
Address: 0x00001413, Set: 0x0, Miss, Tag: 0x00000a
Address: 0x00001152, Set: 0xa, Miss, Tag: 0x000008
Address: 0x00001008, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000805, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00001320, Set: 0x9, Miss, Tag: 0x000009
Address: 0x00001452, Set: 0x2, Miss, Tag: 0x00000a
Address: 0x00001239, Set: 0x1, Hit, Tag: 0x000009
Address: 0x00000427, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001392, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00000836, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000567, Set: 0xb, Hit, Tag: 0x000002
Address: 0x00000354, Set: 0xa, Hit, Tag: 0x000001
Address: 0x00001732, Set: 0x9, Miss, Tag: 0x00000b
Address: 0x00000942, Set: 0xa, Miss, Tag: 0x000004
Address: 0x00000480, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00000649, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00000100, Set: 0x8, Miss, Tag: 0x000000
Address: 0x00001830, Set: 0x1, Miss, Tag: 0x00000c
Address: 0x00000308, Set: 0x8, Miss, Tag: 0x000001
Address: 0x00000601, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00001130, Set: 0x9, Miss, Tag: 0x000008
Address: 0x00000542, Set: 0xa, Miss, Tag: 0x000002
Address: 0x00000844, Set: 0x2, Miss, Tag: 0x000004
Address: 0x00000305, Set: 0x8, Miss, Tag: 0x000001
Address: 0x00000888, Set: 0x4, Hit, Tag: 0x000004
Address: 0x000000236, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00001520, Set: 0x9, Hit, Tag: 0x00000a
Address: 0x00001518, Set: 0x8, Miss, Tag: 0x00000a
Address: 0x00000452, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00000551, Set: 0xa, Hit, Tag: 0x000002
Address: 0x00001039, Set: 0x1, Miss, Tag: 0x000008
Address: 0x00001865, Set: 0x3, Hit, Tag: 0x00000c
Address: 0x00001704, Set: 0x8, Hit, Tag: 0x00000b
Address: 0x00000000, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000622, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000976, Set: 0xb, Miss, Tag: 0x000004
Address: 0x00001452, Set: 0x2, Hit, Tag: 0x000000a
Address: 0x00001861, Set: 0x3, Hit, Tag: 0x00000c
Address: 0x00001403, Set: 0x0, Miss, Tag: 0x00000a
Address: 0x00000797, Set: 0xc, Miss, Tag: 0x000003
```

```
Address: 0x00000649, Set: 0x2, Hit, Tag: 0x000003
Address: 0x00001971, Set: 0xb, Hit, Tag: 0x00000c
Address: 0x00001151, Set: 0xa, Hit, Tag: 0x000008
Address: 0x00000333, Set: 0x9, Miss, Tag: 0x000001
Address: 0x00000865, Set: 0x3, Miss, Tag: 0x000004
Address: 0x00001631, Set: 0x1, Miss, Tag: 0x00000b
Address: 0x00000983, Set: 0xc, Hit, Tag: 0x000004
Address: 0x000000965, Set: 0xb, Hit, Tag: 0x000004
Address: 0x00001413, Set: 0x0, Miss, Tag: 0x00000a
Address: 0x00001291, Set: 0x4, Miss, Tag: 0x000009
Address: 0x00001566, Set: 0xb, Hit, Tag: 0x00000a
Address: 0x00000495, Set: 0x4, Miss, Tag: 0x000002
Address: 0x00001833, Set: 0x1, Hit, Tag: 0x00000c
Address: 0x00000362, Set: 0xb, Miss, Tag: 0x000001
Address: 0x00000800, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000673, Set: 0x3, Hit, Tag: 0x000003
Address: 0x00000598, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00000272, Set: 0x3, Miss, Tag: 0x000001
Address: 0x00000144, Set: 0xa, Miss, Tag: 0x000000
Address: 0x00001050, Set: 0x2, Hit, Tag: 0x000008
Address: 0x00000824, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00001183, Set: 0xc, Miss, Tag: 0x000008
Address: 0x00000867, Set: 0x3, Miss, Tag: 0x000004
Address: 0x00000480, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00001183, Set: 0xc, Hit, Tag: 0x000008
Address: 0x00001489, Set: 0x4, Hit, Tag: 0x00000a
Address: 0x00001456, Set: 0x2, Hit, Tag: 0x00000a
Address: 0x00000588, Set: 0xc, Miss, Tag: 0x000002
Address: 0x00001302, Set: 0x8, Miss, Tag: 0x000009
Address: 0x00000811, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001385, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00001951, Set: 0xa, Miss, Tag: 0x00000c
Address: 0x00000734, Set: 0x9, Miss, Tag: 0x000003
Address: 0x00000488, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00000237, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00001600, Set: 0x0, Miss, Tag: 0x00000b
Address: 0x00000072, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00001220, Set: 0x1, Hit, Tag: 0x000009
Address: 0x00000517, Set: 0x8, Miss, Tag: 0x000002
Address: 0x00001485, Set: 0x4, Hit, Tag: 0x00000a
Address: 0x00000463, Set: 0x3, Miss, Tag: 0x000002
Address: 0x00000036, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00001981, Set: 0xc, Hit, Tag: 0x00000c
Address: 0x00000249, Set: 0x2, Miss, Tag: 0x000001
Address: 0x00000398, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00000733, Set: 0x9, Miss, Tag: 0x000003
Address: 0x00000922, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00000997, Set: 0xc, Miss, Tag: 0x000004
Address: 0x00001006, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00001066, Set: 0x3, Miss, Tag: 0x000008
Address: 0x00002047, Set: 0x2, Miss, Tag: 0x000010
Address: 0x00001830, Set: 0x1, Hit, Tag: 0x00000c
Address: 0x00000202, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000867, Set: 0x3, Miss, Tag: 0x000004
```

```
Address: 0x00000262, Set: 0x3, Hit, Tag: 0x000001
Address: 0x00001385, Set: 0xc, Miss, Tag: 0x000009
Address: 0x00000308, Set: 0x8, Hit, Tag: 0x000001
Address: 0x00001718, Set: 0x8, Hit, Tag: 0x00000b
Address: 0x00001973, Set: 0xb, Hit, Tag: 0x00000c
Address: 0x00001611, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00000481, Set: 0x4, Hit, Tag: 0x000002
Address: 0x00001310, Set: 0x8, Miss, Tag: 0x000009
Address: 0x00001514, Set: 0x8, Hit, Tag: 0x00000a
Address: 0x00001216, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001799, Set: 0xc, Miss, Tag: 0x00000b
Address: 0x00001751, Set: 0xa, Miss, Tag: 0x00000b
Address: 0x00000768, Set: 0xb, Miss, Tag: 0x000003
Address: 0x00001871, Set: 0x3, Miss, Tag: 0x00000c
Address: 0x00000923, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00001285, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00001308, Set: 0x8, Hit, Tag: 0x000009
Address: 0x00001387, Set: 0xc, Hit, Tag: 0x000009
Address: 0x00001321, Set: 0x9, Miss, Tag: 0x000009
Address: 0x00001241, Set: 0x2, Miss, Tag: 0x000009
Address: 0x00001636, Set: 0x1, Hit, Tag: 0x00000b
Address: 0x00001720, Set: 0x9, Miss, Tag: 0x00000b
Address: 0x00001975, Set: 0xb, Hit, Tag: 0x00000c
Address: 0x00000510, Set: 0x8, Miss, Tag: 0x000002
Address: 0x00000669, Set: 0x3, Miss, Tag: 0x000003
Address: 0x00000933, Set: 0x9, Miss, Tag: 0x000004
Address: 0x00001577, Set: 0xb, Miss, Tag: 0x00000a
Address: 0x00000668, Set: 0x3, Miss, Tag: 0x000003
Address: 0x00000715, Set: 0x8, Miss, Tag: 0x000003
Address: 0x00001779, Set: 0xb, Miss, Tag: 0x00000b
Address: 0x00001535, Set: 0x9, Miss, Tag: 0x00000a
Address: 0x00000977, Set: 0xb, Hit, Tag: 0x000004
Address: 0x00001116, Set: 0x8, Miss, Tag: 0x000008
Address: 0x00001844, Set: 0x2, Miss, Tag: 0x00000c
Address: 0x00000647, Set: 0x2, Miss, Tag: 0x000003
Address: 0x00001042, Set: 0x2, Miss, Tag: 0x000008
Address: 0x00001407, Set: 0x0, Miss, Tag: 0x000000a
Address: 0x00001128, Set: 0x9, Miss, Tag: 0x000008
Address: 0x00000304, Set: 0x8, Hit, Tag: 0x000001
Address: 0x000000873, Set: 0x3, Hit, Tag: 0x000004
Address: 0x00000296, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00000055, Set: 0x2, Miss, Tag: 0x000000
Address: 0x00000577, Set: 0xb, Miss, Tag: 0x000002
Address: 0x00001064, Set: 0x3, Hit, Tag: 0x000008
Address: 0x00001926, Set: 0x9, Miss, Tag: 0x00000c
Address: 0x00001500, Set: 0x8, Hit, Tag: 0x00000a
Address: 0x00000302, Set: 0x8, Hit, Tag: 0x000001
Address: 0x00001187, Set: 0xc, Hit, Tag: 0x000008
Address: 0x00000839, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00001623, Set: 0x1, Hit, Tag: 0x00000b
Address: 0x00000380, Set: 0xc, Miss, Tag: 0x000001
Address: 0x00000427, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001295, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00000307, Set: 0x8, Hit, Tag: 0x000001
```

```
Address: 0x00000938, Set: 0x9, Hit, Tag: 0x000004
Address: 0x00001964, Set: 0xb, Hit, Tag: 0x00000c
Address: 0x00001240, Set: 0x2, Hit, Tag: 0x000009
Address: 0x00000467, Set: 0x3, Miss, Tag: 0x000002
Address: 0x00000585, Set: 0xc, Hit, Tag: 0x000002
Address: 0x00001955, Set: 0xa, Hit, Tag: 0x00000c
Address: 0x00000198, Set: 0xc, Miss, Tag: 0x000000
Address: 0x00000072, Set: 0x3, Miss, Tag: 0x000000
Address: 0x00000884, Set: 0x4, Hit, Tag: 0x000004
Address: 0x00001314, Set: 0x8, Hit, Tag: 0x000009
Address: 0x00001916, Set: 0x8, Miss, Tag: 0x00000c
Address: 0x00001531, Set: 0x9, Miss, Tag: 0x00000a
Address: 0x00000308, Set: 0x8, Hit, Tag: 0x000001
Address: 0x00001275, Set: 0x3, Miss, Tag: 0x000009
Address: 0x00000612, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000613, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000101, Set: 0x8, Miss, Tag: 0x000000
Address: 0x00000908, Set: 0x8, Miss, Tag: 0x000004
Address: 0x00000668, Set: 0x3, Hit, Tag: 0x000003
Address: 0x00000678, Set: 0x3, Hit, Tag: 0x000003
Address: 0x00001973, Set: 0xb, Hit, Tag: 0x00000c
Address: 0x00000547, Set: 0xa, Hit, Tag: 0x000002
Address: 0x00000130, Set: 0x9, Miss, Tag: 0x000000
Address: 0x00000227, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00001734, Set: 0x9, Hit, Tag: 0x00000b
Address: 0x00000970, Set: 0xb, Hit, Tag: 0x000004
Address: 0x00001850, Set: 0x2, Hit, Tag: 0x00000c
Address: 0x00000066, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00001397, Set: 0xc, Hit, Tag: 0x000009
Address: 0x00001098, Set: 0x4, Miss, Tag: 0x000008
Address: 0x00000374, Set: 0xb, Hit, Tag: 0x000001
Address: 0x00000287, Set: 0x4, Miss, Tag: 0x000001
Address: 0x00001014, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00001614, Set: 0x0, Hit, Tag: 0x00000b
Address: 0x00000754, Set: 0xa, Miss, Tag: 0x000003
Address: 0x00001599, Set: 0xc, Miss, Tag: 0x00000a
Address: 0x00001522, Set: 0x9, Hit, Tag: 0x00000a
Address: 0x00000952, Set: 0xa, Hit, Tag: 0x000004
Address: 0x00001672, Set: 0x3, Miss, Tag: 0x00000b
Address: 0x00000358, Set: 0xa, Miss, Tag: 0x000001
Address: 0x00000219, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00001540, Set: 0xa, Miss, Tag: 0x00000a
Address: 0x00001890, Set: 0x4, Miss, Tag: 0x00000c
Address: 0x00000527, Set: 0x9, Miss, Tag: 0x000002
Address: 0x00000768, Set: 0xb, Miss, Tag: 0x000003
Address: 0x00000454, Set: 0x2, Miss, Tag: 0x000002
Address: 0x00001140, Set: 0xa, Miss, Tag: 0x000008
Address: 0x00000869, Set: 0x3, Miss, Tag: 0x000004
Address: 0x00001362, Set: 0xb, Miss, Tag: 0x000009
Address: 0x00001809, Set: 0x0, Miss, Tag: 0x00000c
Address: 0x00001547, Set: 0xa, Hit, Tag: 0x000000a
Address: 0x00001287, Set: 0x4, Hit, Tag: 0x000009
Address: 0x00000308, Set: 0x8, Miss, Tag: 0x000001
Address: 0x00001677, Set: 0x3, Miss, Tag: 0x00000b
```

```
Address: 0x00001514, Set: 0x8, Hit, Tag: 0x000000a
Address: 0x00002042, Set: 0x2, Miss, Tag: 0x0000010
Address: 0x00000599, Set: 0xc, Hit, Tag: 0x000002
Address: 0x000001317, Set: 0x8, Hit, Tag: 0x000009
Address: 0x00000060, Set: 0x3, Hit, Tag: 0x000000
Address: 0x00001997, Set: 0xc, Miss, Tag: 0x000000c
Address: 0x00000367, Set: 0xb, Hit, Tag: 0x000001
Address: 0x00000434, Set: 0x1, Miss, Tag: 0x000002
Address: 0x000000236, Set: 0x1, Hit, Tag: 0x000001
```

Test Case:

Configuration:

```
4096
128
16
LRU
WB
```

Access sequences:

```
R: 1804
W: 1174
R: 1545
W: 1604
R: 381
W: 1455
R: 1753
W: 402
R: 503
W: 854
R: 1130
W: 1091
R: 532
W: 700
R: 1729
W: 667
R: 1705
W: 799
R: 1746
W: 1799
R: 502
W: 205
R: 384
W: 719
R: 1415
W: 599
R: 600
```

```
W: 1599
R: 1702
W: 1510
R: 1073
W: 1458
R: 636
W: 571
R: 1014
W: 1017
R: 2026
W: 719
R: 1419
W: 482
R: 1573
W: 502
R: 1573
W: 57
R: 1202
W: 1254
R: 724
W: 860
R: 5
W: 423
R: 611
W: 508
R: 628
W: 996
R: 1227
W: 2044
R: 1595
W: 1827
R: 1595
W: 1249
R: 1289
W: 620
R: 659
W: 1925
R: 1191
W: 1673
R: 894
W: 1170
R: 344
W: 266
R: 1652
W: 1917
R: 768
W: 1177
R: 1974
W: 1970
R: 383
W: 650
R: 782
W: 389
R: 1073
```

```
W: 1394
R: 897
W: 1702
R: 342
W: 76
R: 1698
W: 1937
R: 1904
W: 1245
R: 1138
W: 1145
R: 1865
W: 1797
R: 1023
W: 1009
R: 1422
W: 1917
R: 131
W: 1766
R: 135
W: 1783
R: 1635
W: 903
R: 912
W: 1561
R: 826
W: 1295
R: 163
W: 1608
R: 1684
W: 1237
R: 954
W: 533
R: 891
W: 1296
R: 610
W: 541
R: 1185
W: 466
R: 1786
W: 275
R: 1611
W: 1603
R: 24
W: 586
R: 564
W: 1446
R: 456
W: 695
R: 1164
W: 591
R: 430
W: 751
R: 1495
```

```
W: 1342
R: 264
W: 273
R: 590
W: 428
R: 1881
W: 226
R: 1665
W: 788
R: 760
W: 508
R: 36
W: 1370
R: 1049
W: 1222
R: 1836
W: 787
R: 1497
W: 1399
R: 342
W: 1522
R: 1986
W: 907
R: 920
W: 394
R: 1602
W: 37
R: 985
W: 2033
R: 788
W: 432
R: 1327
W: 1053
R: 705
W: 1917
R: 1481
W: 539
R: 96
W: 1098
R: 1327
W: 856
R: 1606
W: 1363
R: 178
W: 607
R: 537
W: 2014
R: 1394
W: 2035
R: 1365
W: 1736
R: 1509
W: 1303
R: 595
```

```
W: 381
R: 1697
W: 150
R: 418
W: 635
R: 135
W: 1207
R: 1067
W: 1462
R: 212
W: 1773
R: 1332
W: 1693
R: 264
W: 1428
R: 743
W: 1591
R: 236
W: 301
R: 906
W: 414
R: 908
W: 1444
R: 380
W: 254
R: 1431
W: 1745
R: 1990
W: 892
R: 1001
W: 538
R: 1273
W: 650
R: 688
W: 1692
R: 1285
W: 823
R: 851
W: 305
R: 237
W: 1063
R: 30
W: 1569
R: 708
W: 294
R: 949
W: 1451
R: 1885
W: 1185
R: 1752
W: 743
R: 1599
W: 612
R: 139
```

```
W: 1979
R: 866
W: 1570
R: 1677
W: 808
R: 414
W: 630
R: 1346
W: 1688
R: 1280
W: 2034
R: 1332
W: 518
R: 809
W: 135
R: 823
W: 1047
R: 1198
W: 853
R: 568
W: 1906
R: 1147
W: 1518
R: 1309
W: 984
R: 655
W: 1013
R: 1727
W: 207
R: 1625
W: 1867
R: 138
W: 443
R: 1389
W: 1815
R: 1251
W: 1804
R: 397
W: 550
R: 1444
W: 1678
R: 536
W: 728
R: 148
W: 1346
R: 863
W: 971
R: 345
W: 13
R: 1824
W: 913
R: 1919
W: 923
R: 383
```

```
W: 1180
R: 1907
W: 1039
R: 145
W: 1586
R: 1246
W: 1770
R: 1405
W: 1384
R: 165
W: 747
R: 1152
W: 1416
R: 503
W: 1549
R: 1966
W: 1947
R: 1179
W: 455
R: 627
W: 1327
R: 1801
W: 1490
R: 250
W: 98
R: 1503
W: 26
R: 1011
W: 1374
R: 949
W: 1395
R: 506
W: 808
R: 386
W: 651
R: 347
W: 1632
R: 373
W: 1752
R: 968
W: 538
R: 451
W: 72
R: 1954
W: 954
R: 1622
W: 1873
R: 853
W: 753
R: 280
W: 1480
R: 33
W: 33
R: 922
```

```
W: 283
R: 131
W: 377
R: 310
W: 1142
R: 1751
W: 1259
R: 489
W: 209
R: 20
W: 875
R: 860
W: 367
R: 459
W: 1233
R: 71
W: 1428
R: 1771
W: 523
R: 1500
W: 1678
R: 1477
W: 1074
R: 1503
W: 283
R: 1828
W: 1783
R: 1763
W: 1861
R: 1816
W: 638
R: 96
W: 1947
R: 1015
W: 406
R: 1041
W: 719
R: 1666
W: 1531
R: 928
W: 1686
R: 358
W: 1789
R: 5
W: 818
R: 974
W: 76
R: 198
W: 698
R: 599
W: 1698
R: 328
W: 29
R: 725
```

```
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R: 312
W: 505
R: 1566
W: 27
R: 318
W: 1334
R: 665
W: 414
R: 1233
W: 1681
R: 821
W: 226
R: 352
W: 439
R: 1757
W: 1280
R: 77
W: 68
R: 1021
W: 82
R: 886
W: 1996
R: 158
W: 1084
R: 646
W: 758
R: 734
W: 974
R: 787
W: 1459
R: 757
W: 1099
R: 1964
W: 275
R: 1126
W: 234
R: 1609
W: 1792
R: 649
W: 794
R: 1425
W: 1470
R: 1020
W: 1777
R: 1909
W: 730
R: 1009
W: 1986
R: 798
W: 2031
R: 20
W: 1684
R: 1979
```

```
W: 178
R: 720
W: 577
R: 936
W: 1454
R: 1551
W: 1723
R: 866
W: 260
R: 774
W: 782
R: 535
W: 1901
R: 1017
W: 96
R: 1645
W: 1666
R: 890
W: 1022
R: 1088
W: 1910
R: 751
W: 949
R: 592
W: 1760
R: 887
W: 1390
R: 1743
W: 907
R: 1026
W: 1674
R: 1085
W: 1746
R: 203
W: 2022
R: 1153
W: 1754
R: 1697
W: 2019
R: 2014
W: 424
R: 753
W: 501
R: 277
W: 1770
R: 597
W: 1922
R: 1388
W: 1487
R: 896
W: 428
R: 1350
W: 1647
R: 1377
```

```
W: 1942
R: 1359
W: 216
R: 1285
W: 1055
R: 1123
W: 263
R: 681
W: 161
R: 2010
W: 885
R: 135
W: 1115
R: 591
W: 1832
R: 1086
W: 558
R: 208
W: 1839
R: 1059
W: 485
R: 1562
W: 1657
R: 359
W: 902
R: 1096
W: 1255
R: 1331
W: 398
R: 854
W: 660
R: 293
W: 166
R: 877
W: 1578
R: 1221
W: 2000
R: 1841
W: 1902
R: 113
W: 1803
R: 739
W: 248
R: 870
W: 1331
R: 33
W: 1956
R: 1889
W: 241
R: 1748
W: 900
R: 727
W: 1262
R: 509
```

```
W: 1086
R: 116
W: 1606
R: 294
W: 1447
R: 2004
W: 1148
R: 60
W: 249
R: 1314
W: 937
R: 1827
W: 487
R: 889
W: 1621
R: 342
W: 1003
R: 1376
W: 1081
R: 1251
W: 199
R: 364
W: 1284
R: 107
W: 205
R: 1526
W: 1855
R: 1106
W: 205
R: 1069
W: 1615
R: 1291
W: 1186
R: 1173
W: 1585
R: 585
W: 1130
R: 686
W: 645
R: 1379
W: 2000
R: 1582
W: 1159
R: 440
W: 424
R: 732
W: 782
R: 1427
W: 60
R: 1863
W: 630
R: 259
W: 180
R: 1915
```

```
W: 367
R: 385
W: 1393
R: 174
W: 1491
R: 1598
W: 1244
R: 1059
W: 841
R: 382
W: 184
R: 379
W: 967
R: 1314
W: 1065
R: 1613
W: 646
R: 1017
W: 1147
R: 1805
W: 1457
R: 1571
W: 489
R: 191
W: 950
R: 549
W: 7
R: 1581
W: 809
R: 187
W: 1448
R: 1176
W: 572
R: 793
W: 1350
R: 16
W: 343
R: 546
W: 1075
R: 1184
W: 928
R: 1259
W: 1563
R: 1896
W: 526
R: 580
W: 1461
R: 1172
W: 1598
R: 560
W: 929
R: 1007
W: 84
R: 1418
```

```
W: 1199
R: 1034
W: 1967
R: 1206
W: 567
R: 728
W: 1393
R: 2015
W: 1904
R: 1965
W: 760
R: 1207
W: 1981
R: 1103
W: 1753
R: 1008
W: 240
R: 634
W: 220
R: 1803
W: 482
R: 746
W: 336
R: 1943
W: 1918
R: 1934
W: 455
R: 799
W: 893
R: 539
W: 169
R: 44
W: 1574
R: 88
W: 1250
R: 93
W: 817
R: 595
W: 61
R: 673
W: 513
R: 821
W: 1880
R: 446
W: 1925
R: 1586
W: 1455
R: 117
W: 172
R: 1675
W: 1920
R: 654
W: 373
R: 208
```

```
W: 549
R: 243
W: 94
R: 1004
W: 1042
R: 988
W: 1544
R: 1211
W: 1032
R: 1070
W: 1299
R: 235
W: 1163
R: 68
W: 830
R: 1224
W: 742
R: 1343
W: 2046
R: 574
W: 1790
R: 1923
W: 112
R: 1197
W: 2040
R: 284
W: 824
R: 1912
W: 938
R: 1197
W: 73
R: 1487
W: 1440
R: 167
W: 444
R: 434
W: 1155
R: 1988
W: 1645
R: 140
W: 1010
R: 896
W: 375
R: 125
W: 965
R: 1205
W: 1350
R: 1707
W: 501
R: 1348
W: 233
R: 243
W: 1223
R: 346
```

```
W: 1440
R: 1215
W: 630
R: 216
W: 1079
R: 1569
W: 1413
R: 1152
W: 1008
R: 805
W: 1320
R: 1452
W: 1239
R: 427
W: 1392
R: 836
W: 567
R: 354
W: 1732
R: 942
W: 480
R: 649
W: 100
R: 1830
W: 308
R: 601
W: 1130
R: 542
W: 844
R: 305
W: 888
R: 236
W: 1520
R: 1518
W: 452
R: 551
W: 1039
R: 1865
W: 1704
R: 0
W: 622
R: 976
W: 1452
R: 1861
W: 1403
R: 797
W: 649
R: 1971
W: 1151
R: 333
W: 865
R: 1631
W: 983
R: 965
```

```
W: 1413
R: 1291
W: 1566
R: 495
W: 1833
R: 362
W: 800
R: 673
W: 598
R: 272
W: 144
R: 1050
W: 824
R: 1183
W: 867
R: 480
W: 1183
R: 1489
W: 1456
R: 588
W: 1302
R: 811
W: 1385
R: 1951
W: 734
R: 488
W: 237
R: 1600
W: 72
R: 1220
W: 517
R: 1485
W: 463
R: 36
W: 1981
R: 249
W: 398
R: 733
W: 922
R: 997
W: 1006
R: 1066
W: 2047
R: 1830
W: 202
R: 867
W: 262
R: 1385
W: 308
R: 1718
W: 1973
R: 1611
W: 481
R: 1310
```

```
W: 1514
R: 1216
W: 1799
R: 1751
W: 768
R: 1871
W: 923
R: 1285
W: 1308
R: 1387
W: 1321
R: 1241
W: 1636
R: 1720
W: 1975
R: 510
W: 669
R: 933
W: 1577
R: 668
W: 715
R: 1779
W: 1535
R: 977
W: 1116
R: 1844
W: 647
R: 1042
W: 1407
R: 1128
W: 304
R: 873
W: 296
R: 55
W: 577
R: 1064
W: 1926
R: 1500
W: 302
R: 1187
W: 839
R: 1623
W: 380
R: 427
W: 1295
R: 307
W: 938
R: 1964
W: 1240
R: 467
W: 585
R: 1955
W: 198
R: 72
```

```
R: 1314
W: 1916
R: 1531
W: 308
R: 1275
W: 612
R: 613
W: 101
R: 908
W: 668
R: 678
W: 1973
R: 547
W: 130
R: 227
W: 1734
R: 970
W: 1850
R: 66
W: 1397
R: 1098
W: 374
R: 287
W: 1014
R: 1614
W: 754
R: 1599
W: 1522
R: 952
W: 1672
R: 358
W: 219
R: 1540
W: 1890
R: 527
W: 768
R: 454
W: 1140
R: 869
W: 1362
R: 1809
W: 1547
R: 1287
W: 308
R: 1677
W: 1514
R: 2042
W: 599
R: 1317
W: 60
R: 1997
W: 367
```

W: 884

```
R: 434
W: 236
```

Output:

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Address: 0x00000502, Set: 0x0, Hit, Tag: 0x000005
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Address: 0x00001394, Set: 0x1, Miss, Tag: 0x000013
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Address: 0x00001009, Set: 0x0, Hit, Tag: 0x000010
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Address: 0x00001766, Set: 0x0, Hit, Tag: 0x000017
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Address: 0x00001635, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000903, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00000912, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001561, Set: 0x0, Hit, Tag: 0x000015
Address: 0x000000826, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001295, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00000163, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001608, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001684, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00001237, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000954, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000533, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000891, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001296, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00000610, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000541, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001185, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00000466, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00001786, Set: 0x1, Hit, Tag: 0x000017
Address: 0x00000275, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001611, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001603, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000024, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000586, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00000564, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001446, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00000456, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000695, Set: 0x1, Miss, Tag: 0x000006
Address: 0x00001164, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00000591, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00000430, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000751, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001495, Set: 0x1, Miss, Tag: 0x000014
Address: 0x00001342, Set: 0x0, Miss, Tag: 0x000013
Address: 0x00000264, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000273, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000590, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00000428, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001881, Set: 0x1, Miss, Tag: 0x000018
Address: 0x00000226, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001665, Set: 0x0, Miss, Tag: 0x000016
Address: 0x00000788, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00000760, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000508, Set: 0x0, Miss, Tag: 0x000005
Address: 0x00000036, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001370, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001049, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00001222, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00001836, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000787, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00001497, Set: 0x1, Hit, Tag: 0x000014
Address: 0x00001399, Set: 0x1, Hit, Tag: 0x000013
```

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Address: 0x00000342, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001522, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001986, Set: 0x1, Miss, Tag: 0x000019
Address: 0x00000907, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00000920, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000394, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00001602, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000037, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000985, Set: 0x1, Hit, Tag: 0x000009
Address: 0x00002033, Set: 0x0, Miss, Tag: 0x000020
Address: 0x00000788, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00000432, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00001327, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001053, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000705, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001917, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001481, Set: 0x1, Hit, Tag: 0x000014
Address: 0x00000539, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000096, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00001098, Set: 0x1, Hit, Tag: 0x000010
Address: 0x000001327, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000856, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001606, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001363, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000178, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000607, Set: 0x0, Miss, Tag: 0x000006
Address: 0x00000537, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00002014, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00001394, Set: 0x1, Miss, Tag: 0x000013
Address: 0x000002035, Set: 0x0, Hit, Tag: 0x000020
Address: 0x000001365, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001736, Set: 0x0, Miss, Tag: 0x000017
Address: 0x00001509, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001303, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000595, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00000381, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00001697, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00000150, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000418, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000635, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000135, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001207, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001067, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001462, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00000212, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001773, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001332, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001693, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00000264, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001428, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00000743, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001591, Set: 0x1, Hit, Tag: 0x000015
Address: 0x000000236, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000301, Set: 0x0, Miss, Tag: 0x000003
```

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Address: 0x00000906, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00000414, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000908, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001444, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00000380, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000254, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001431, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001745, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001990, Set: 0x1, Hit, Tag: 0x000019
Address: 0x00000892, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001001, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00000538, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001273, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000650, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000688, Set: 0x1, Miss, Tag: 0x000006
Address: 0x00001692, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00001285, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00000823, Set: 0x0, Hit, Tag: 0x000008
Address: 0x000000851, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000305, Set: 0x0, Hit, Tag: 0x000003
Address: 0x000000237, Set: 0x0, Hit, Tag: 0x0000002
Address: 0x00001063, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000030, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001569, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00000708, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000294, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000949, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001451, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00001885, Set: 0x1, Hit, Tag: 0x000018
Address: 0x00001185, Set: 0x1, Miss, Tag: 0x000011
Address: 0x00001752, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000743, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001599, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00000612, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000139, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001979, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000866, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001570, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001677, Set: 0x0, Miss, Tag: 0x000016
Address: 0x00000808, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000414, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000630, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00001346, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001688, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00001280, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00002034, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00001332, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000518, Set: 0x0, Miss, Tag: 0x000005
Address: 0x00000809, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000135, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000823, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001047, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001198, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00000853, Set: 0x0, Hit, Tag: 0x000008
```

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Address: 0x00000568, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001906, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001147, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00001518, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001309, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000984, Set: 0x1, Hit, Tag: 0x000009
Address: 0x00000655, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00001013, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001727, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000207, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001625, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001867, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00000138, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000443, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001389, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00001815, Set: 0x0, Hit, Tag: 0x000018
Address: 0x000001251, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001804, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000397, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000550, Set: 0x0, Miss, Tag: 0x000005
Address: 0x00001444, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001678, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000536, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000728, Set: 0x0, Miss, Tag: 0x000007
Address: 0x00000148, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001346, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000863, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000971, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00000345, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000013, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001824, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00000913, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001919, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000923, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000383, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00001180, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00001907, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001039, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000145, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001586, Set: 0x1, Hit, Tag: 0x000015
Address: 0x000001246, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001770, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001405, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00001384, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00000165, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000747, Set: 0x0, Miss, Tag: 0x000007
Address: 0x00001152, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00001416, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00000503, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001549, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001966, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001947, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001179, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000455, Set: 0x0, Hit, Tag: 0x000004
```

```
Address: 0x00000627, Set: 0x0, Miss, Tag: 0x000006
Address: 0x000001327, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001801, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00001490, Set: 0x1, Hit, Tag: 0x000014
Address: 0x00000250, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000098, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00001503, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000026, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001011, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001374, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000949, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001395, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00000506, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000808, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000386, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000651, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000347, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00001632, Set: 0x0, Hit, Tag: 0x000016
Address: 0x000000373, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001752, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000968, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000538, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000451, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000072, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001954, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000954, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001622, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001873, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00000853, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000753, Set: 0x0, Miss, Tag: 0x000007
Address: 0x00000280, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001480, Set: 0x1, Hit, Tag: 0x000014
Address: 0x00000033, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000033, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000922, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00000283, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000131, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000377, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000310, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001142, Set: 0x0, Miss, Tag: 0x000011
Address: 0x000001751, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001259, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00000489, Set: 0x1, Miss, Tag: 0x000004
Address: 0x00000209, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000020, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000875, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000860, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000367, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000459, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001233, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000071, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001428, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00001771, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000523, Set: 0x0, Hit, Tag: 0x000005
```

```
Address: 0x00001500, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001678, Set: 0x0, Hit, Tag: 0x000016
Address: 0x000001477, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001074, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001503, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000283, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001828, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00001783, Set: 0x1, Hit, Tag: 0x000017
Address: 0x00001763, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001861, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00001816, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000638, Set: 0x0, Miss, Tag: 0x000006
Address: 0x00000096, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00001947, Set: 0x0, Miss, Tag: 0x000019
Address: 0x00001015, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000406, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001041, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000719, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001666, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001531, Set: 0x0, Hit, Tag: 0x000015
Address: 0x000000928, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001686, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00000358, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00001789, Set: 0x1, Hit, Tag: 0x000017
Address: 0x00000005, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000818, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000974, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000076, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000198, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000698, Set: 0x1, Hit, Tag: 0x000006
Address: 0x00000599, Set: 0x1, Miss, Tag: 0x000005
Address: 0x00001698, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00000328, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000029, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000725, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001831, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00000312, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000505, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001566, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000027, Set: 0x0, Hit, Tag: 0x000000
Address: 0x000000318, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001334, Set: 0x0, Miss, Tag: 0x000013
Address: 0x00000665, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000414, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001233, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00001681, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00000821, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000226, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000352, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000439, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001757, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001280, Set: 0x1, Miss, Tag: 0x000012
Address: 0x00000077, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000068, Set: 0x0, Hit, Tag: 0x000000
```

```
Address: 0x00001021, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000082, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000886, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001996, Set: 0x1, Miss, Tag: 0x000019
Address: 0x00000158, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001084, Set: 0x1, Hit, Tag: 0x000010
Address: 0x00000646, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000758, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000734, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000974, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000787, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00001459, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00000757, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001099, Set: 0x1, Hit, Tag: 0x000010
Address: 0x00001964, Set: 0x0, Miss, Tag: 0x000019
Address: 0x00000275, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001126, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00000234, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001609, Set: 0x0, Miss, Tag: 0x000016
Address: 0x00001792, Set: 0x1, Hit, Tag: 0x000017
Address: 0x00000649, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000794, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00001425, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001470, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001020, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001777, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001909, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000730, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001009, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001986, Set: 0x1, Hit, Tag: 0x000019
Address: 0x00000798, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00002031, Set: 0x0, Miss, Tag: 0x000020
Address: 0x00000020, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001684, Set: 0x1, Miss, Tag: 0x000016
Address: 0x00001979, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000178, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000720, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000577, Set: 0x0, Miss, Tag: 0x000005
Address: 0x00000936, Set: 0x0, Hit, Tag: 0x000009
Address: 0x000001454, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001551, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001723, Set: 0x0, Miss, Tag: 0x000017
Address: 0x00000866, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000260, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000774, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000782, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00000535, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001901, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001017, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00000096, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00001645, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001666, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000890, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001022, Set: 0x0, Hit, Tag: 0x000010
```

```
Address: 0x00001088, Set: 0x1, Hit, Tag: 0x000010
Address: 0x00001910, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000751, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000949, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000592, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00001760, Set: 0x0, Hit, Tag: 0x000017
Address: 0x000000887, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001390, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00001743, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000907, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001026, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001674, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001085, Set: 0x1, Hit, Tag: 0x000010
Address: 0x00001746, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000203, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00002022, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00001153, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00001754, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001697, Set: 0x1, Hit, Tag: 0x000016
Address: 0x00002019, Set: 0x0, Hit, Tag: 0x000020
Address: 0x000002014, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00000424, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000753, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000501, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000277, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001770, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000597, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00001922, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001388, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00001487, Set: 0x1, Miss, Tag: 0x000014
Address: 0x00000896, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00000428, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001350, Set: 0x0, Miss, Tag: 0x000013
Address: 0x00001647, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001377, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001942, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001359, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000216, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001285, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00001055, Set: 0x0, Hit, Tag: 0x000010
Address: 0x000001123, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000263, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000681, Set: 0x1, Miss, Tag: 0x000006
Address: 0x00000161, Set: 0x0, Miss, Tag: 0x000001
Address: 0x000002010, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00000885, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00000135, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001115, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000591, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00001832, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00001086, Set: 0x1, Hit, Tag: 0x000010
Address: 0x00000558, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000208, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001839, Set: 0x0, Hit, Tag: 0x000018
```

```
Address: 0x00001059, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000485, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00001562, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001657, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000359, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000902, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001096, Set: 0x1, Hit, Tag: 0x000010
Address: 0x00001255, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00001331, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000398, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000854, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000660, Set: 0x0, Miss, Tag: 0x000006
Address: 0x00000293, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000166, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000877, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001578, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001221, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00002000, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00001841, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00001902, Set: 0x0, Miss, Tag: 0x000019
Address: 0x00000113, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001803, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000739, Set: 0x0, Hit, Tag: 0x000007
Address: 0x000000248, Set: 0x0, Hit, Tag: 0x0000002
Address: 0x00000870, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001331, Set: 0x0, Miss, Tag: 0x000013
Address: 0x00000033, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001956, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001889, Set: 0x1, Hit, Tag: 0x000018
Address: 0x00000241, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001748, Set: 0x0, Miss, Tag: 0x000017
Address: 0x00000900, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000727, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001262, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00000509, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001086, Set: 0x1, Hit, Tag: 0x000010
Address: 0x00000116, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00001606, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000294, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001447, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00002004, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00001148, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00000060, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000249, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001314, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000937, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001827, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00000487, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000889, Set: 0x1, Miss, Tag: 0x000008
Address: 0x00001621, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000342, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001003, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00001376, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001081, Set: 0x1, Hit, Tag: 0x000010
```

```
Address: 0x00001251, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000199, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000364, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001284, Set: 0x1, Miss, Tag: 0x000012
Address: 0x00000107, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000205, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001526, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001855, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00001106, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000205, Set: 0x0, Hit, Tag: 0x0000002
Address: 0x00001069, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001615, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001291, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00001186, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00001173, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00001585, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00000585, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00001130, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000686, Set: 0x1, Hit, Tag: 0x000006
Address: 0x00000645, Set: 0x0, Hit, Tag: 0x000006
Address: 0x000001379, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00002000, Set: 0x0, Miss, Tag: 0x000020
Address: 0x00001582, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00001159, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000440, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000424, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000732, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000782, Set: 0x1, Miss, Tag: 0x000007
Address: 0x00001427, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00000060, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001863, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000630, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000259, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000180, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00001915, Set: 0x0, Miss, Tag: 0x000019
Address: 0x00000367, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000385, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00001393, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00000174, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001491, Set: 0x1, Hit, Tag: 0x000014
Address: 0x000001598, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00001244, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00001059, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00000841, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00000382, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000184, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00000379, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000967, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001314, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001065, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001613, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000646, Set: 0x0, Miss, Tag: 0x000006
Address: 0x00001017, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001147, Set: 0x0, Hit, Tag: 0x000011
```

```
Address: 0x00001805, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00001457, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00001571, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00000489, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000191, Set: 0x1, Hit, Tag: 0x000001
Address: 0x000000950, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000549, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000007, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001581, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00000809, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000187, Set: 0x1, Hit, Tag: 0x000001
Address: 0x00001448, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001176, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00000572, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000793, Set: 0x1, Hit, Tag: 0x000007
Address: 0x000001350, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000016, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000343, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000546, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001075, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001184, Set: 0x1, Miss, Tag: 0x000011
Address: 0x00000928, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001259, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001563, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001896, Set: 0x1, Miss, Tag: 0x000018
Address: 0x00000526, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000580, Set: 0x1, Miss, Tag: 0x000005
Address: 0x00001461, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001172, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00001598, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00000560, Set: 0x0, Hit, Tag: 0x000005
Address: 0x000000929, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001007, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000084, Set: 0x1, Miss, Tag: 0x000000
Address: 0x00001418, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001199, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00001034, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001967, Set: 0x0, Miss, Tag: 0x000019
Address: 0x00001206, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000567, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000728, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001393, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00002015, Set: 0x0, Miss, Tag: 0x000020
Address: 0x00001904, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001965, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000760, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001207, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001981, Set: 0x1, Hit, Tag: 0x000019
Address: 0x00001103, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00001753, Set: 0x0, Miss, Tag: 0x000017
Address: 0x00001008, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000240, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000634, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000220, Set: 0x0, Hit, Tag: 0x000002
```

```
Address: 0x00001803, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000482, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000746, Set: 0x0, Hit, Tag: 0x000007
Address: 0x000000336, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001943, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001918, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001934, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000455, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000799, Set: 0x1, Hit, Tag: 0x000007
Address: 0x00000893, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00000539, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000169, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000044, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00001574, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00000088, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00001250, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000093, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00000817, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000595, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00000061, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000673, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000513, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000821, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001880, Set: 0x1, Hit, Tag: 0x000018
Address: 0x00000446, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001925, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001586, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00001455, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00000117, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000172, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001675, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001920, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000654, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000373, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000208, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000549, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000243, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000094, Set: 0x1, Hit, Tag: 0x000000
Address: 0x00001004, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00001042, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000988, Set: 0x1, Miss, Tag: 0x000009
Address: 0x00001544, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001211, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001032, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001070, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001299, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00000235, Set: 0x0, Miss, Tag: 0x000002
Address: 0x000001163, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000068, Set: 0x0, Miss, Tag: 0x000000
Address: 0x000000830, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001224, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000742, Set: 0x0, Miss, Tag: 0x000007
Address: 0x00001343, Set: 0x0, Miss, Tag: 0x000013
Address: 0x00002046, Set: 0x0, Miss, Tag: 0x000020
```

```
Address: 0x00000574, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001790, Set: 0x1, Miss, Tag: 0x000017
Address: 0x00001923, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000112, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00001197, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00002040, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00000284, Set: 0x1, Miss, Tag: 0x000002
Address: 0x00000824, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001912, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000938, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001197, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00000073, Set: 0x0, Hit, Tag: 0x000000
Address: 0x000001487, Set: 0x1, Hit, Tag: 0x000014
Address: 0x00001440, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00000167, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000444, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000434, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001155, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00001988, Set: 0x1, Hit, Tag: 0x000019
Address: 0x00001645, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000140, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001010, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00000896, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00000375, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000125, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000965, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001205, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001350, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001707, Set: 0x0, Miss, Tag: 0x000017
Address: 0x00000501, Set: 0x0, Miss, Tag: 0x000005
Address: 0x000001348, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000233, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000243, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001223, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000346, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001440, Set: 0x0, Miss, Tag: 0x000014
Address: 0x00001215, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000630, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000216, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001079, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001569, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001413, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001152, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00001008, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000805, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001320, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001452, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001239, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00000427, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001392, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00000836, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000567, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000354, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00001732, Set: 0x0, Hit, Tag: 0x000017
```

```
Address: 0x00000942, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00000480, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00000649, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000100, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001830, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00000308, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000601, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00001130, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000542, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000844, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000305, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000888, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00000236, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001520, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001518, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000452, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000551, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001039, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001865, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00001704, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000000, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000622, Set: 0x0, Miss, Tag: 0x000006
Address: 0x00000976, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001452, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001861, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00001403, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00000797, Set: 0x1, Miss, Tag: 0x000007
Address: 0x00000649, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00001971, Set: 0x0, Miss, Tag: 0x000019
Address: 0x00001151, Set: 0x0, Miss, Tag: 0x000011
Address: 0x000000333, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000865, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001631, Set: 0x0, Miss, Tag: 0x000016
Address: 0x00000983, Set: 0x1, Hit, Tag: 0x000009
Address: 0x00000965, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001413, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001291, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00001566, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000495, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00001833, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000362, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000800, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000673, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000598, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00000272, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00000144, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00001050, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00000824, Set: 0x0, Miss, Tag: 0x000008
Address: 0x00001183, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00000867, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000480, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00001183, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00001489, Set: 0x1, Hit, Tag: 0x000014
Address: 0x00001456, Set: 0x0, Hit, Tag: 0x000014
```

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Address: 0x00000588, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00001302, Set: 0x0, Miss, Tag: 0x000013
Address: 0x00000811, Set: 0x0, Hit, Tag: 0x000008
Address: 0x000001385, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00001951, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000734, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000488, Set: 0x1, Hit, Tag: 0x000004
Address: 0x000000237, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001600, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000072, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001220, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00000517, Set: 0x0, Miss, Tag: 0x000005
Address: 0x00001485, Set: 0x1, Hit, Tag: 0x000014
Address: 0x00000463, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00000036, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001981, Set: 0x1, Hit, Tag: 0x000019
Address: 0x000000249, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000398, Set: 0x1, Miss, Tag: 0x000003
Address: 0x00000733, Set: 0x0, Hit, Tag: 0x000007
Address: 0x000000922, Set: 0x0, Hit, Tag: 0x000009
Address: 0x000000997, Set: 0x1, Hit, Tag: 0x000009
Address: 0x00001006, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001066, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00002047, Set: 0x0, Miss, Tag: 0x000020
Address: 0x00001830, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000202, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00000867, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000262, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001385, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00000308, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00001718, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001973, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001611, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000481, Set: 0x1, Hit, Tag: 0x000004
Address: 0x00001310, Set: 0x0, Miss, Tag: 0x000013
Address: 0x00001514, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00001216, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001799, Set: 0x1, Hit, Tag: 0x000017
Address: 0x00001751, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000768, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001871, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000923, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001285, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00001308, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001387, Set: 0x1, Hit, Tag: 0x000013
Address: 0x00001321, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001241, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00001636, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00001720, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001975, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000510, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000669, Set: 0x0, Miss, Tag: 0x000006
Address: 0x00000933, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001577, Set: 0x0, Hit, Tag: 0x000015
```

```
Address: 0x00000668, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000715, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001779, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00001535, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000977, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001116, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00001844, Set: 0x0, Hit, Tag: 0x000018
Address: 0x00000647, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00001042, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001407, Set: 0x0, Hit, Tag: 0x000014
Address: 0x00001128, Set: 0x0, Hit, Tag: 0x000011
Address: 0x00000304, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000873, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00000296, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00000055, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00000577, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00001064, Set: 0x0, Hit, Tag: 0x000010
Address: 0x00001926, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001500, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000302, Set: 0x0, Hit, Tag: 0x000003
Address: 0x000001187, Set: 0x1, Hit, Tag: 0x000011
Address: 0x00000839, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001623, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000380, Set: 0x1, Hit, Tag: 0x000003
Address: 0x00000427, Set: 0x0, Miss, Tag: 0x000004
Address: 0x00001295, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00000307, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000938, Set: 0x0, Miss, Tag: 0x000009
Address: 0x00001964, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001240, Set: 0x0, Miss, Tag: 0x000012
Address: 0x00000467, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000585, Set: 0x1, Hit, Tag: 0x000005
Address: 0x00001955, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00000198, Set: 0x1, Miss, Tag: 0x000001
Address: 0x00000072, Set: 0x0, Miss, Tag: 0x000000
Address: 0x00000884, Set: 0x1, Hit, Tag: 0x000008
Address: 0x00001314, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001916, Set: 0x0, Hit, Tag: 0x000019
Address: 0x00001531, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00000308, Set: 0x0, Hit, Tag: 0x000003
Address: 0x000001275, Set: 0x0, Hit, Tag: 0x000012
Address: 0x00000612, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000613, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000101, Set: 0x0, Miss, Tag: 0x000001
Address: 0x00000908, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00000668, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00000678, Set: 0x0, Hit, Tag: 0x000006
Address: 0x00001973, Set: 0x0, Miss, Tag: 0x000019
Address: 0x00000547, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000130, Set: 0x0, Hit, Tag: 0x000001
Address: 0x00000227, Set: 0x0, Miss, Tag: 0x000002
Address: 0x00001734, Set: 0x0, Hit, Tag: 0x000017
Address: 0x00000970, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001850, Set: 0x0, Hit, Tag: 0x000018
```

```
Address: 0x00000066, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001397, Set: 0x1, Miss, Tag: 0x000013
Address: 0x00001098, Set: 0x1, Miss, Tag: 0x000010
Address: 0x00000374, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00000287, Set: 0x1, Hit, Tag: 0x000002
Address: 0x00001014, Set: 0x0, Miss, Tag: 0x000010
Address: 0x00001614, Set: 0x0, Miss, Tag: 0x000016
Address: 0x00000754, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00001599, Set: 0x1, Hit, Tag: 0x000015
Address: 0x00001522, Set: 0x0, Miss, Tag: 0x000015
Address: 0x00000952, Set: 0x0, Hit, Tag: 0x000009
Address: 0x00001672, Set: 0x0, Hit, Tag: 0x000016
Address: 0x00000358, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000219, Set: 0x0, Hit, Tag: 0x000002
Address: 0x00001540, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001890, Set: 0x1, Miss, Tag: 0x000018
Address: 0x00000527, Set: 0x0, Hit, Tag: 0x000005
Address: 0x00000768, Set: 0x0, Hit, Tag: 0x000007
Address: 0x00000454, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00001140, Set: 0x0, Miss, Tag: 0x000011
Address: 0x00000869, Set: 0x0, Hit, Tag: 0x000008
Address: 0x00001362, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00001809, Set: 0x0, Miss, Tag: 0x000018
Address: 0x00001547, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00001287, Set: 0x1, Hit, Tag: 0x000012
Address: 0x00000308, Set: 0x0, Miss, Tag: 0x000003
Address: 0x00001677, Set: 0x0, Miss, Tag: 0x000016
Address: 0x00001514, Set: 0x0, Hit, Tag: 0x000015
Address: 0x00002042, Set: 0x0, Hit, Tag: 0x000020
Address: 0x00000599, Set: 0x1, Hit, Tag: 0x000005
Address: 0x000001317, Set: 0x0, Hit, Tag: 0x000013
Address: 0x00000060, Set: 0x0, Hit, Tag: 0x000000
Address: 0x00001997, Set: 0x1, Hit, Tag: 0x000019
Address: 0x00000367, Set: 0x0, Hit, Tag: 0x000003
Address: 0x00000434, Set: 0x0, Hit, Tag: 0x000004
Address: 0x00000236, Set: 0x0, Hit, Tag: 0x000002
```