

Testcases

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For part-1

INPUT:

8192
64
1
FIFO
WB

R: 0x20203302
R: 0x20202011
R: 0x20203302

OUTPUT:

```
Address: 0x20203302, Set: 0x4c, Miss, Tag: 0x10101
Address: 0x20202011, Set: 0x0, Miss, Tag: 0x10101
Address: 0x20203302, Set: 0x4c, Hit, Tag: 0x10101
```

For part-2:

INPUT:

2048
64
1
RANDOM
WT

R: 0x20203302
R: 0x20202011
R: 0x20203302

OUTPUT:

```
Address: 0x20203302, Set: 0xc, Miss, Tag: 0x40406
Address: 0x20202011, Set: 0x0, Miss, Tag: 0x40404
Address: 0x20203302, Set: 0xc, Hit, Tag: 0x40406
```

For part-3:

INPUT:

16384
128
4
RANDOM
WB

R: 0x20203302
R: 0x20202011
R: 0x20203302

OUTPUT:

```
Address: 0x20203302, Set: 0x66, Miss, Tag: 0x8080  
Address: 0x20202011, Set: 0x40, Miss, Tag: 0x8080  
Address: 0x20203302, Set: 0x66, Hit, Tag: 0x8080
```

For part-4:

INPUT:

4096
64
4
FIFO
WB

R: 0x20203302
R: 0x20202011
W: 0x20203302

OUTPUT:

```
Address: 0x20203302, Set: 0xc, Miss, Tag: 0x20203  
Address: 0x20202011, Set: 0x0, Miss, Tag: 0x20202  
Address: 0x20203302, Set: 0xc, Hit, Tag: 0x20203
```

INPUT:

8192
128
8
RANDOM
WT

R: 0x20203302
R: 0x20202011
W: 0x20203302

OUTPUT:

```
Address: 0x20203302, Set: 0x26, Miss, Tag: 0x10101  
Address: 0x20202011, Set: 0x0, Miss, Tag: 0x10101  
Address: 0x20203302, Set: 0x26, Hit, Tag: 0x10101
```