## **Computer organization**

```
Input:
     S, CL, B => Size, Cache Line, Block
     Instruction => Associative or Direct or Set (Case sensitive)
             => Size of Test Case
     Command => 0 (if operation is searching) 1 (if operation is
inserting)
           If (Command == 1) {
                 Address
           }
           Else {
                 Data
                 Address
           }
```

Output:

If reading

Print data of address or print Miss

If writing

If data is already present their then it will update data

## Test Cases 1

```
10
Associative
00000000000011111011000111 123
00000000000011111011000111
10000000000011111011000111 400
10000000000011111011000111
10010000000011111011010111 220
10010000000011111011010111
10110000000011111011011111 83145
101100000000011111011011111
```

## Test Case 2

```
10
8
64
Direct
8
00000000000011111011000111 123
00000000000011111011000111
10000000000011111011000111 400
10000000000011111011000111
10010000000011111011010111 220
10010000000011111011010111
10110000000011111011 011111 83145
10110000000011111011011111
```

## Test Case 3

```
10
8
64
Set
8
1111110000101011000110000 123
1111110000101011000110000
1111010000101011000110000 400
1111010000101011000110000
1001110000101011000110000 220
1001110000101011000110000
1001110010101011000110100 83145
1001110010101011000110100
```





