Computer Architecture Project 2 :
Cache Simulation

At that byte there is the value 5(Cache Miss).

At that byte there is the value 6(Cache Hit).

At that byte there is the value 7(Cache Hit).

At that byte there is the value 4C(Cache Miss).

At that byte there is the value 4D(Cache Hit).

At that byte there is the value 4E(Cache Hit).

At that byte there is the value 4F(Cache Hit).

At that byte there is the value 50(Cache Miss).

At that byte there is the value 51(Cache Hit).

At that byte there is the value A6(Cache Miss).

At that byte there is the value C3(Cache Miss).

Slot	Valid	Tag	Data
0	1	0	0123456789ABCDEF
1	0	0	0000000000000000
2	0	0	0000000000000000
3	0	0	0000000000000000
4	1	1	404142434445464748494A4B4C4D4E4F
5	1	1	505152535455565758595A5B5C5D5E5F
6	0	0	0000000000000000
7	0	0	0000000000000000
8	0	0	0000000000000000
9	0	0	0000000000000000
A	1	3	A0A1A2A3A4A5A6A7A8A9AAABACADAEAF
B	0	0	0000000000000000
C	1	4	C0C1C2C3C4C5C6C7C8C9CACBCCCDCECF
D	0	0	0000000000000000
E	0	0	0000000000000000
F	0	0	0000000000000000

Value 99 has been written to address 14C(Cache Hit).

Value 7 has been written to address 63B(Cache Miss).

At that byte there is the value 82(Cache Miss).

Slot	Valid	Tag	Data
0	1	0	0123456789ABCDEF
1	0	0	0000000000000000
2	0	0	0000000000000000
3	1	6	303132333435363738393A73C3D3E3F
4	1	1	404142434445464748494A4B994D4E4F
5	1	1	505152535455565758595A5B5C5D5E5F
6	0	0	0000000000000000
7	0	0	0000000000000000

```
8      1      5      8081828384858687 88898A8B8C8D8E8F
9      0      0      0000000000000000
A      1      3      A0A1A2A3A4A5A6A7 A8A9AAABACADAEAF
B      0      0      0000000000000000
C      1      4      C0C1C2C3C4C5C6C7 C8C9CACBCCCDCECF
D      0      0      0000000000000000
E      0      0      0000000000000000
F      0      0      0000000000000000
```

At that byte there is the value 48(Cache Miss).

At that byte there is the value 3F(Cache Miss).

```
Slot Valid Tag    Data
0      1      0      0123456789ABCDEF
1      0      0      0000000000000000
2      0      0      0000000000000000
3      1      0      3031323334353637 38393A3B3C3D3E3F
4      1      3      4041424344454647 48494A4B4C4D4E4F
5      1      1      5051525354555657 58595A5B5C5D5E5F
6      0      0      0000000000000000
7      0      0      0000000000000000
8      1      5      8081828384858687 88898A8B8C8D8E8F
9      0      0      0000000000000000
A      1      3      A0A1A2A3A4A5A6A7 A8A9AAABACADAEAF
B      0      0      0000000000000000
C      1      4      C0C1C2C3C4C5C6C7 C8C9CACBCCCDCECF
D      0      0      0000000000000000
E      0      0      0000000000000000
F      0      0      0000000000000000
```

At that byte there is the value 4B(Cache Miss).

At that byte there is the value 99(Cache Hit).

At that byte there is the value 3F(Cache Miss).

At that byte there is the value 83(Cache Miss).

```
Slot Valid Tag    Data
0      1      0      0123456789ABCDEF
1      0      0      0000000000000000
2      0      0      0000000000000000
3      1      6      3031323334353637 38393A73C3D3E3F
4      1      1      4041424344454647 48494A4B994D4E4F
5      1      1      5051525354555657 58595A5B5C5D5E5F
6      0      0      0000000000000000
7      0      0      0000000000000000
8      1      0      8081828384858687 88898A8B8C8D8E8F
9      0      0      0000000000000000
A      1      3      A0A1A2A3A4A5A6A7 A8A9AAABACADAEAF
B      0      0      0000000000000000
C      1      4      C0C1C2C3C4C5C6C7 C8C9CACBCCCDCECF
D      0      0      0000000000000000
E      0      0      0000000000000000
F      0      0      0000000000000000
```