

R 0x523517  
 W 0x337128  
 R 0x721513  
 W 0x331818  
 W 0x225935  
 R 0x337192  
 W 0x337191  
 R 0x225933

Cache Size is 64B, block size is 16B, and it is a 2-way associative. Find the number of misses, memory read and memory writes:

A) Write-back

	MRU	LRU
Set 0	Invalid	Invalid
Set 1	Invalid	Invalid

1-

R 0x523517

Tag = 0x52351

Set= 0x1

	MRU	LRU
Set 0	Invalid	Invalid
Set 1	0x52351	Invalid

Total Misses: 1

Total Hits: 0

Total Memory Reads: 1

Total Memory Writes: 0

2-

W 0x337128

Tag = 0x33712

Set= 0x0

	MRU	LRU
Set 0	0x33712 (D)	Invalid
Set 1	0x52351	Invalid

Total Misses: 2

Total Hits: 0

Total Memory Reads: 2

Total Memory Writes: 0

3-

R 0x721513

Tag = 0x72151

Set= 0x1

	MRU	LRU
Set 0	0x33712 (D)	Invalid
Set 1	0x72151	0x52351

Total Misses: 3

Total Hits: 0

Total Memory Reads: 3

Total Memory Writes: 0

4-

W 0x331818

Tag = 0x33181

Set= 0x1

	MRU	LRU
Set 0	0x33712 (D)	Invalid
Set 1	0x33181 (D)	0x72151

Total Misses: 4

Total Hits: 0

Total Memory Reads: 4

Total Memory Writes: 0

5-

W 0x225935

Tag =0x22593

Set= 0x1

	MRU	LRU
Set 0	0x33712 (D)	Invalid
Set 1	0x22593 (D)	0x33181 (D)

Total Misses: 5

Total Hits: 0

Total Memory Reads: 5

Total Memory Writes: 0

6-

R 0x337192

Tag =0x33719

Set= 0x1

	MRU	LRU
Set 0	0x33712 (D)	Invalid
Set 1	0x33719	0x22593 (D)

Total Misses: 6

Total Hits: 0

Total Memory Reads: 6

Total Memory Writes: 1

7-

W 0x337191

Tag =0x33719 Set= 0x1

	MRU	LRU
Set 0	0x33712 (D)	Invalid
Set 1	0x33719 (D)	0x22593 (D)

Total Misses: 6

Total Hits: 1

Total Memory Reads: 6

Total Memory Writes: 1

8-

R 0x225933

Tag =0x22593 Set= 0x1

	MRU	LRU
Set 0	0x33712 (D)	Invalid
Set 1	0x22593 (D)	0x33719 (D)

Total Misses: 6

Total Hits: 2

Total Memory Reads: 6

Total Memory Writes: 1