

## DS5110/CS5501 Caching Policy Worksheet

### Problem 1

FIFO, size 2: 

	recent
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Data. Hit?

1

2

1

3

1

Hit ratio: \_\_\_\_\_

### Problem 2

LRU, size 2: 

	recent
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Data. Hit?

A

B

A

C

A

Hit ratio: \_\_\_\_\_

### Problem 3

LRU, size 3: 

	recent
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Data. Hit?

W

W

X

Y

Y

Z

Y

X

Hit ratio: \_\_\_\_\_

Miss latency: 20 ms

Hit latency: 0.1 ms

Average latency: \_\_\_\_\_

**Problem 4**

LRU, size 4:

	recent
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Data. Hit?

3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>
3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>

Hit ratio: \_\_\_\_\_

**Problem 5**

LRU, size 5:

	recent
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Data. Hit?

3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>
3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>

Hit ratio: \_\_\_\_\_