

## DS5110 Caching Policy Worksheet

### Problem 1

Data. Hit?

1	<input type="checkbox"/>
2	<input type="checkbox"/>
1	<input type="checkbox"/>
3	<input type="checkbox"/>
1	<input type="checkbox"/>

FIFO, size 2:

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

### Problem 2

Data. Hit?

A	<input type="checkbox"/>
B	<input type="checkbox"/>
A	<input type="checkbox"/>
C	<input type="checkbox"/>
A	<input type="checkbox"/>

LRU, size 2:

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

### Problem 3

Data. Hit?

W	<input type="checkbox"/>
W	<input type="checkbox"/>
X	<input type="checkbox"/>
Y	<input type="checkbox"/>
Y	<input type="checkbox"/>
Z	<input type="checkbox"/>
Y	<input type="checkbox"/>
X	<input type="checkbox"/>

LRU, size 3:

	recent
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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: \_\_\_\_\_