

## Lab A

Has already listen the video.

## Lab B

```
mycroft@mycroft-VMware-Virtual-Platform:~/hw$ gcc lab9_b.c -o lab9_b
mycroft@mycroft-VMware-Virtual-Platform:~/hw$ ./lab9_b
Page trace: 2 5 1 3 4 1 2 1 3 5 1 4

    === LRU with 3 frames ===
Total page faults: 9
Final frames: 5 4 1

    === LRU with 4 frames ===
Total page faults: 8
Final frames: 5 4 1 3
```

I.

The number of page faults with 3 frames is **9**.

II.

With 3 frames, the pages that reside in memory at the end of the page trace are: **5, 4, 1**.

III.

The number of page faults with 4 frames is **8**.

IV.

With 4 frames, the pages that reside in memory at the end of the page trace are: **5, 4, 1, 3**.

## Lab C

In this page trace, increasing the number of frames from 3 to 4 reduces the number of page faults from 9 to 8. This is consistent with the fact that LRU is a stack algorithm, so adding more frames cannot increase the number of page faults. Therefore, with the LRU page replacement algorithm it is **not** possible to encounter Belady's anomaly.