Week 11

1 Please read the Chapter 9 Virtual Memory.

2 You must know what the demand paging, and what are the benefits when using demand paging.

3 What is the demand paging implementation? What bits are used in page table entry supported by hardware?

4 Please describe the procedure when page fault happens.

5 You must know the page replacement algorithms including FIFO, optimal, LRU, LFU, MFU.

6 You must know thrashing, and what are the solutions to prevent thrashing?

7 You must know the kernel memory allocations including Buddy system allocator and Slab allocator.

Understand the terms:

1 demand paging

2 page fault

3 page placement policy

4 Belady’ s anomaly

5 working set

6 locality

7 thrashing

8 prepaging

9 slab allocation

10 buddy allocation