- Chapter 8 - Main Memory (315)
– Swapping (8.2 p 322)
– Backing Store (p 322)
– Continguous Memory allocation (8.3 324)
_ Table of Memory/ List of holes
_ Dynamic Storage allocation Problem
     first fit (p326)
     best fit (p327)
     worst fit (p327)
_ External Fragmentation (p327)
_ Internal Fragmentation (p327)
_ 50-percent rule (p327)
_ Compaction (p327)
– Paging (8.4 328)
_ vocab: pages, frames, logical memory, physical memory
_ understand issues involving:
     · size
     · shared pages (p 336)
     · OS view vs user view
     · hardware support *p332)

- Chapter 9 - Virtual Memory (315)
– Demand Paging (9.2 322)
_ pure demand paging (p364)
_ locality of reference (p364)
_ "fast" fork - copy-on-write (9.3 p367)
– Page Replacement (9.4 p369)
_ over-allocated memory (better CPU utilization and throughput)
– I/O memory requirements (compete or fixed in OS?) (395 – 9.7.3 memory mapped I/O)
– Options on page-fault (with no free frames)
     _ terminate process - but ?
     _ swap out process and frames
     _ replace single page
– page-fault service (without dirty bit) (363)
     _ Find page on disk
     _ Find free frame
          · use it if found
          · if not select a victim
          · write victim to disk (update tables)
     _ read page into free frame (update tables)
     _ restart (wake-up) user process
– Use dirty bits to avoid some writes (p371)
– small gains in demand paging give great gains
– Page replacement algorithms (369)
_ FIFO (p373), optimal (p374), LRU (p376), LFU/MFU (p380)

_ Belady's anomaly (p374)
– Thrashing (9.6 p 386)