CSI 202 - Computer Science II - Spring 2010 - Review Sheet #1

The first set of page numbers will come from the Dale (202) text.
The second set of page numbers will come from the Liang (201) text.

Memory Diagrams (153-159)
  - Stack Vs Heap
  - Function Stack

Structs (74-79, 93)
  - creating a new type
  - dot (.) operator
  - arrow (->) operator

Pointers (153-159) (352-366)
  - declaration, use of star (*)
  - dereference, star (*) operator
  - address-of (&) operator
  - new, delete
  - problems with pointers / dynamic memory
      - stale pointers, garbage, double delete, functions

Classes (87-95) (281-308, 481-490, 498)
  - advantages vs. structs
  - private, public and protected
  - Inheritance
  - IS-A vs HAS-A relationships

Linked List (160-180) (621-637)
  - node, struct, code
  - pointers, NULL
  - end of list
  - head vs. tail
  - add to front
  - output
  - operating on every element
  - memory usage, advantages and disadvantages