**CS 310 Exam Three Terms and Concepts**

Last Modified: 10 April 2022.

You should know or be able to do:

* how find, insert, and delete work in a normal binary search tree
* how insert works in an AVL tree, including the operation of its rotations
* how find, insert, and delete work in a splay tree, including the operation of its splay rotations
* the dynamic programming algorithms for iteratively filling the memo table and recursively filling the memo table, and for traceback, for:
  + making a money amount with coins
  + global string alignment
  + longest common substring
  + longest increasing substring
* the analysis of the above DP algorithms.
* the correct C++ data types for functions that return a size, for array indices, for counting relatively small numbers of things, and for counting large numbers of things