

Midterm Review

CSC 2053 - Platform Based Computing

Topics in the Java language and Data Structures:

Recursion

Recursive vs Iterative solutions

Memoization and Dynamic Programming

Graphs, definitions, degrees

Implementation of Graphs using Adjacency Matrices

Pseudo code Depth First Search

Pseudo code of Breadth First Search

Filling out a Adjacency Matrix given a graph and weights

Hashing

Linear Probing

Implementations of adding, removing, contains in a hash map

Fill out 2D buckets, Chaining for hash maps

Concurrency, Interference, and synchronization

Runnable, Threads

Topics in Linux:

know the basic command line commands (ls, cd, env, chmod, mkdir, rm, cp, cat, touch, head, tail)

know standard in, standard out, standard error, and how to redirect

know the permission string, and the octal representation

know what ssh, and scp are

know the basic linux filesystem (/home, /etc, /bin, /root)

know the symbols and their representation (., .., backslash, tilde, hidden files, wildcards)