**CSCI 132**: Basic Data Structures and Algorithms

Final Study Guide

**Logistics**

* Monday, May 8th @ **2:00 PM – 3:50 PM** in Norm Asbjornson Hall 165
* Time length: 110 minutes. This exam is designed to be completed in 60-75 minutes.
* Open notes. You are allowed to use your laptop, your IDE, any notes, slides, lecture examples. This exam can be completed without a laptop.
* You are NOT allowed to use the internet to access external resources (Google, Stack Overflow, W3 Schools, etc)
* The midterm exam will consist of different types of question, such as:
  + Multiple choice questions
  + True/False
  + Short answer
  + Illustrate the steps of \_\_\_\_ sort
  + What does the stack/queue look like after X operations?
  + Complete the line of code so that X happens.
  + What does this (recursive) method do?

**Content**

The following topics are all fair game for the midterm exam.

* Basic Java Classes, Class Structure, Methods, Operations, if statements, loops, OOP
* Basic Linked Lists
* Big-O Notation, How to determine running time of an algorithm
* Stacks
* Queues
* Bubble Sort
* Selection Sort
* Merge Sort
* Quick Sort
* Linear Search/Binary Search
* Recursion

Sample Exam Questions

(Coming Soon)