

CS121 Midterm Exam Study Guide

Lecture 01: Software Engineering Principles

while loop & logic; constant define; cout format; software engineering life-cycle.

Lecture 02: Data Design and Implementation

public and private functions in a class; big O order of a 2D array; member function of a class; struct data and location.

Lecture 03: Unsorted List

implementing a class as a linked structure; destructors vs. memory leaking.

Lecture 04: Sorted List

for loop in a linked list; dynamically allocated array-based sorted list; purpose of the parameterized constructor in the dynamically allocated array-based sorted list; object define; domain object.

Lecture 05: Stack and Queue

array-based stack; queue derivation.

Lecture 06: List Plus

stack of a char type; array-of-records linked list implementation; the purpose of function Initialize in the array-of-records implementation; pointer and data operation in a linked list.