

CS 230: Data Structures

Test III Study Guide

Disclaimer

This document is provided as a study guide only. It does not represent what will be on the quiz. It highlights the important topics that you must know for the quiz. The quiz may include questions on concepts not included in this document.

The Following Are Important

- The test covers material in Chapters 6 and 7 of the textbook.
- Quiz Maximum Points: 15 points (17 points if you answer the extra credit question).
- Quiz Format:
 - True/False questions
 - Multiple-Choice questions.
 - Short answer questions.
- Study:
 - 6. **The List ADT:** Queues and their applications; array implementation of the queue ADT; linked implementation of the queue ADT; circular queues; generic implementations of the queue ADT; queues and breadth-first-search; priority queues and their applications; and other applications of queues.
 - 7. **The Binary Search Trees ADT:** Trees; types of trees; binary trees and types; binary search trees (BST); applications of binary search trees; traversing algorithms for binary search trees; and linked implementation of the BST ADT.
- Review:
 - 6. Read Chapter 6 Summary on pages 408-409 in the textbook.
 - 7. Read Chapter 7 Summary on pages 485-486 in the textbook.
- Practice:
 - 6. Chapter 6 Exercises on pages 410-420 in the textbook.
 - 7. Chapter 7 Exercises on pages 487-498 in the textbook.

Good Luck.