

Exam#2 Study Guide

Chapter 7: Quick Sorting

- (a) Description of quicksort
- (b) Performance of quick sort

Chapter 8: Sorting in linear time

- (a) Counting sort
- (b) Radix sort
- (c) Bucket sort

Chapter 11: Hash Tables

- (a) Direct-address tables
- (b) Hash tables
 - Chaining
 - Open addressing
 - i. Linear probing
 - ii. Quadratic probing
 - iii. Double hashing

Chapter 12: Binary Search Trees

- (a) BST property
- (b) Dynamic operation performed on a BST
 - a. Search
 - b. Insert
 - c. MAX
 - d. MIN
 - e. Predecessor
 - f. Successor

Chapter 13: Red Black Trees

- (a) RB tree property
- (b) Dynamic operation performed on a Red-Black Tree
 - a. Search
 - b. Insert
 - c. MAX

- d. MIN
- e. Predecessor
- f. Successor