# Chapter 10

**Trees Plus**

10.1 AVL Trees

Single Rotations on AVL Trees

Generalizing Single Rotations on AVL Trees

Double Rotations on AVL Trees

Generalizing Double Rotations on AVL Trees

Application Level

Logical Level

Implementation Level

10.2 Red-Black Trees

Inserting into Red-Black Trees

Implementing Recoloring for Red-Black Trees

Red-Black Tree Summary

10.3 B-Trees

Summary

Exercises