# Chapter 8

**Binary Search Trees**

8.1 Searching

Linear Searching

High-Probability Ordering

Key Ordering

Binary Searching

8.2 Trees

8.3 Logical Level

8.4 Application Level

8.5 Implementation Level

8.6 Recursive Binary Search Tree Operations

Functions IsFull and IsEmpty

Function GetLength

Function GetItem

Function PutItem

Insertion Order and Tree Shape

Function DeleteItem

Function Print

The Class Constructor and Destructor

Copying a Tree

More About Traversals

Functions ResetTree and GetNextItem

8.7 Iterative Insertion and Deletion

Searching a Binary Search Tree

Function PutItem

Function DeleteItem

Test Plan

Recursion or Iteration?

8.8 Comparing Binary Search Trees and Linear Lists

Big-O Comparisons

Summary

Exercises