Chapter 8

Binary Search Trees

After studying this chapter, you should be able to

* Define and use the following terminology:
* Binary tree
* Binary search tree
* Ancestor
* Root
* Parent
* Child
* Descendant
* Level
* Height
* Subtree
* Define a binary search tree at the logical level
* Show what a binary search tree would look like after a series of insertions and deletions
* Implement the following binary search tree algorithms in C++:
* Putting an element in the tree
* Deleting an element from the tree
* Getting an element from the tree
* Modifying an element in the tree
* Copying a tree
* Traversing a tree in preorder, inorder, and postorder
* Discuss the Big-O efficiency of a given binary search tree operation
* Describe an algorithm for balancing a binary search tree