5-2 Assignment: Binary Search Tree

CS 200

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11/24/2023

The purpose of this code is to load cvs files that contain bid information. This information can be displayed, added, removed, and searched. A binary search tree was used to store the bid information. A BST (binary search tree) is a data structure that stores the node key as the root with subtree keys. When the subtree key is less than or equal to the root the node is placed on the left attached by an edge, when the subtree key is greater than or equal to the root the node is placed on the right attached by an edge. This allows for searches to be completed quickly. Removing a bid from the BST searches for the key and removes that node then restructures the tree.

This assignment took a long time for me to work out. I had to use the textbook and other coding examples like the YouTube video that was posted in the announcements this week. I found that video very helpful and it explained a binary tree in a way that I could easily understand and comprehend. I followed the comments in the code to help guide me through this lesson as well. I think a binary search tree is something I would like to play around with some more. I think it has a great amount of potential for searching through information that is stored. Removing information proves to be far more difficult especially if it is the root that is being removed.

Flowchart

A diagram of a flowchart

Description automatically generated