Tiffany Montero

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CS 300

5-2 Assignment

Binary Search Tree

The purpose of this project load and update eBay bids and store them in a Binary Search Tree. A menu is displayed, which gives you the option of loading the attached file, deleting bids, searching for a specific bid, and displaying all current bids. The program will also calculate and display how long it takes to process each function.

I struggled the most with following directions. I jumped in and attempted to fix everything that was empty. I struggled with PreOrder and PostOrder, kept getting error messages, and spent quite some time attempting to debug it. Once I looked back at the directions, I realized it wasn’t a part of the requirements and the project ran without a hitch.

Pseudocode

Display Menu

If selection 1 is made:

Load bids onto bst

Return to Display Menu

If selection 2 is made:

Calculate time

Iterate through binary search tree

Print each bid info on its own line

Print time

Return to Display Menu

If selection 3 is made:

Prompt user to enter bid ID

Search through bst for bid Id

If bid is found:

Print bid info

Else:

Print “Bid cannot be found”

Calculate time

Print time

Return to Display Menu

If selection 4 is made:

Prompt user to enter bid ID

Search through bst for bid Id

If bid is found:

Remove bid from bst

Return to display menu

If selection 9 is made:

Print goodbye statement

Break