5-2 Assignment

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In this assignment I coded a binary search tree to add and remove nodes from a linked list and to output the list to the user. First, I added a data function under Node along with left and right. I also added it to the Node constructor. Under the private class I added postOrder, PreOrder, and display. I initialized root with nullptr. I gave the inOrder, postOrder, and preOrder functions instructions by directing it which way it should traverse. I then wrote code that allows the user to insert , remove, search, and add nodes. Then, I made the loops for the order in which the nodes should be in.

ADD Node \***data** to Node

ADD **data** to contrusctor

ADD postOrder to private and public class

ADD preOrder to private and public class

ADD display to private and public class

INITIALIZE root = nullptr

ASSIGN inOrder (left, data, right)

ASSIGN postOrder (left, right, data)

ASSIGN preOrder (data, left, right)

IF root = nullptr

Add new node

ELSE

Add node

IMPLEMENT removal of a node

IMPLEMENT search

IF bid = 0

RETURN current bid

IF bid < 0

RETURN bid on left

ELSE

RETURN bid on right

IMPLEMENT if-else for adding a node

IMPLEMENT if-else inOrder to print list

IMPLEMENT if-else postOrder to print list

IMPLEMENT if-else preOrder to print list