Welcome to Lab 4 - Binary Search Trees Created by Xi and Neil

BreadthFirst traversal:
57.12 23.44 87.43 18.36 44.55 68.99 111.22 11.00 20.21 36.18 48.48 77.77 101.00 543.21 1.00 21.00 51.00 345.67 251.00 151.00 inOrder traversal:
1.00 11.00 18.36 20.21 21.00 23.44 36.18 44.55 48.48 51.00 57.12 68.99 77.77 87.43 101.00 111.22 151.00 251.00 345.67 543.21 preOrder traversal:
57.12 23.44 18.36 11.00 1.00 20.21 21.00 44.55 36.18 48.48 51.00 87.43 68.99 77.77 111.22 101.00 543.21 345.67 251.00 151.00 postOrder traversal:
1.00 11.00 21.00 20.21 18.36 36.18 51.00 48.48 44.55 23.44 77.77 68.99 101.00 151.00 251.00 345.67 543.21 111.22 87.43 57.12

Instructions: Type a number (1-5) to select an operation:

1. Add Krone

Delete Krone

3. Search Krone4. Print BST Traversals

5. Print BST Traversals & Exit Program

Choose an operation: 1 Enter Krone value to add: 20

Choose an operation: 4

BreadthFirst traversal:

57.12 23.44 87.43 18.36 44.55 68.99 111.22 11.00 20.21 36.18 48.48 77.77 101.00 543.21 1.00 20.00 21.00 51.00 345.67 251.00 151.00 inOrder traversal:

1.00 11.00 18.36 20.00 20.21 21.00 23.44 36.18 44.55 48.48 51.00 57.12 68.99 77.77 87.43 101.00 111.22 151.00 251.00 345.67 543.21 preOrder traversal:

57.12 23.44 18.36 11.00 1.00 20.21 20.00 21.00 44.55 36.18 48.48 51.00 87.43 68.99 77.77 111.22 101.00 543.21 345.67 251.00 151.00 postOrder traversal:

1.00 11.00 20.00 21.00 20.21 18.36 36.18 51.00 48.48 44.55 23.44 77.77 68.99 101.00 151.00 251.00 345.67 543.21 111.22 87.43 57.12

Choose an operation: 1
Enter Krone value to add: 30

Choose an operation: 4
BreadthFirst traversal:
57.12 23.44 87.43 18.36 44.55 68.99 111.22 11.00 20.21 36.18 48.48 77.77 101.00 543.21 1.00 20.00 21.00 30.00 51.00 345.67 251.00 151.00 inOrder traversal:
1.00 11.00 18.36 20.00 20.21 21.00 23.44 30.00 36.18 44.55 48.48 51.00 57.12 68.99 77.77 87.43 101.00 111.22 151.00 251.00 345.67 543.21 preOrder traversal:
57.12 23.44 18.36 11.00 1.00 20.21 20.00 21.00 44.55 36.18 30.00 48.48 51.00 87.43 68.99 77.77 111.22 101.00 543.21 345.67 251.00 151.00 postOrder traversal:
1.00 11.00 20.00 21.00 20.21 18.36 30.00 36.18 51.00 48.48 44.55 23.44 77.77 68.99 101.00 151.00 251.00 345.67 543.21 111.22 87.43 57.12

Choose an operation: 3
Enter Krone value to search: 30
Found Krone value ' 30.00 '.

Choose an operation: 3
Enter Krone value to search: 57.12
Found Krone value ' 57.12 '.

Choose an operation: 3
Enter Krone value to search: 2
Krone value '2.00' was not found.

Choose an operation: 3 Enter Krone value to search: -4 Ignored. Krone value '-4.00' is invalid.

Choose an operation: 1 Enter Krone value to add: -2 Ignored. Krone value '-2.00' is invalid.

Choose an operation: 4
BreadthFirst traversal:
57.12 23.44 87.43 18.36 44.55 68.99 111.22 11.00 20.21 36.18 48.48 77.77 101.00 543.21 1.00 20.00 21.00 30.00 51.00 345.67 251.00 151.00 inOrder traversal:
1.00 11.00 18.36 20.00 20.21 21.00 23.44 30.00 36.18 44.55 48.48 51.00 57.12 68.99 77.77 87.43 101.00 111.22 151.00 251.00 345.67 543.21 preOrder traversal:
57.12 23.44 18.36 11.00 1.00 20.21 20.00 21.00 44.55 36.18 30.00 48.48 51.00 87.43 68.99 77.77 111.22 101.00 543.21 345.67 251.00 151.00 postOrder traversal:
1.00 11.00 20.00 21.00 20.01 18.36 30.00 36.18 51.00 48.48 44.55 23.44 77.77 68.99 101.00 151.00 251.00 345.67 543.21 111.22 87.43 57.12

Choose an operation: 5
BreadthFirst traversal:
57.12 23.44 87.43 18.36 44.55 68.99 111.22 11.00 20.21 36.18 48.48 77.77 101.00 543.21 1.00 20.00 21.00 30.00 51.00 345.67 251.00 151.00 inOrder traversal:
1.00 11.00 18.36 20.00 20.21 21.00 23.44 30.00 36.18 44.55 48.48 51.00 57.12 68.99 77.77 87.43 101.00 111.22 151.00 251.00 345.67 543.21 predrder traversal:
57.12 23.44 18.36 11.00 1.00 20.21 20.00 21.00 44.55 36.18 30.00 48.48 51.00 87.43 68.99 77.77 111.22 101.00 543.21 345.67 251.00 151.00 postOrder traversal:
1.00 11.00 20.00 21.00 20.21 18.36 30.00 36.18 51.00 48.48 44.55 23.44 77.77 68.99 101.00 151.00 251.00 345.67 543.21 111.22 87.43 57.12

Thank you for using our program.
-Neil Dandekar and Xi Gao, 03.04.2023