

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
2. Delete Krone
3. Search Krone
4. Print BST Traversals
5. Print BST Traversals & Exit Program

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

Choose an operation: 1
Enter Krone value to add: 57.12
Ignored. Krone value '57.12' already exists in tree.

Choose an operation: 1
Enter Krone value to add: -20
Ignored. Krone value '-20.00' is invalid.

Choose an operation: 2
Enter Krone value to delete: 23.44

Choose an operation: 4
BreadthFirst traversal:
57.12 36.18 87.43 18.36 44.55 68.99 111.22 11.00 20.21 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 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 36.18 18.36 11.00 1.00 20.21 20.00 21.00 44.55 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 51.00 48.48 44.55 36.18 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: 10

Choose an operation: 4
BreadthFirst traversal:
57.12 36.18 87.43 18.36 44.55 68.99 111.22 11.00 20.21 48.48 77.77 101.00 543.21 1.00 20.00 21.00 51.00 345.67 10.00 251.00 151.00
inOrder traversal:
1.00 10.00 11.00 18.36 20.00 20.21 21.00 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 36.18 18.36 11.00 1.00 10.00 20.21 20.00 21.00 44.55 48.48 51.00 87.43 68.99 77.77 111.22 101.00 543.21 345.67 251.00 151.00
postOrder traversal:
10.00 1.00 11.00 20.00 21.00 20.21 18.36 51.00 48.48 44.55 36.18 77.77 68.99 101.00 151.00 251.00 345.67 543.21 111.22 87.43 57.12

Choose an operation: 2
Enter Krone value to delete: 10

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

Choose an operation: 2
Enter Krone value to delete: 18.36

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

Choose an operation: 2
Enter Krone value to delete: 3
Ignored. Krone value '3.00' does not exist in tree.

Choose an operation: 3
Enter Krone value to search: 7
Krone value '7.00' was not found.

Choose an operation: 3
Enter Krone value to search: -2
Ignored. Krone value '-2.00' is invalid.

Choose an operation: 3
Enter Krone value to search: 68.99
Found Krone value ' 68.99 '.

Choose an operation: 4
BreadthFirst traversal:
57.12 36.18 87.43 20.00 44.55 68.99 111.22 11.00 20.21 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 20.00 20.21 21.00 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 36.18 20.00 11.00 1.00 20.21 21.00 44.55 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 20.00 51.00 48.48 44.55 36.18 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 36.18 87.43 20.00 44.55 68.99 111.22 11.00 20.21 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 20.00 20.21 21.00 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 36.18 20.00 11.00 1.00 20.21 21.00 44.55 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 20.00 51.00 48.48 44.55 36.18 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