## 1. Algorithmic asymptotic complexity:

- a. O(nlog(n)) In the worst case (the entire bottom row is filled except for the right child of the rightmost node in the level above it), the addElement() function will have to traverse through the whole tree in preorder.
- b. O(nlog(n)) In the worst case (the only node is the left child of the rightmost node of the level above it), the deleteElement() function will have to traverse through the entire tree in postorder.
- c. O(nlog(n)) Regardless of which traversal you use here, this function will have to traverse through the entire tree, adding all the values to a shared variable passed by reference.