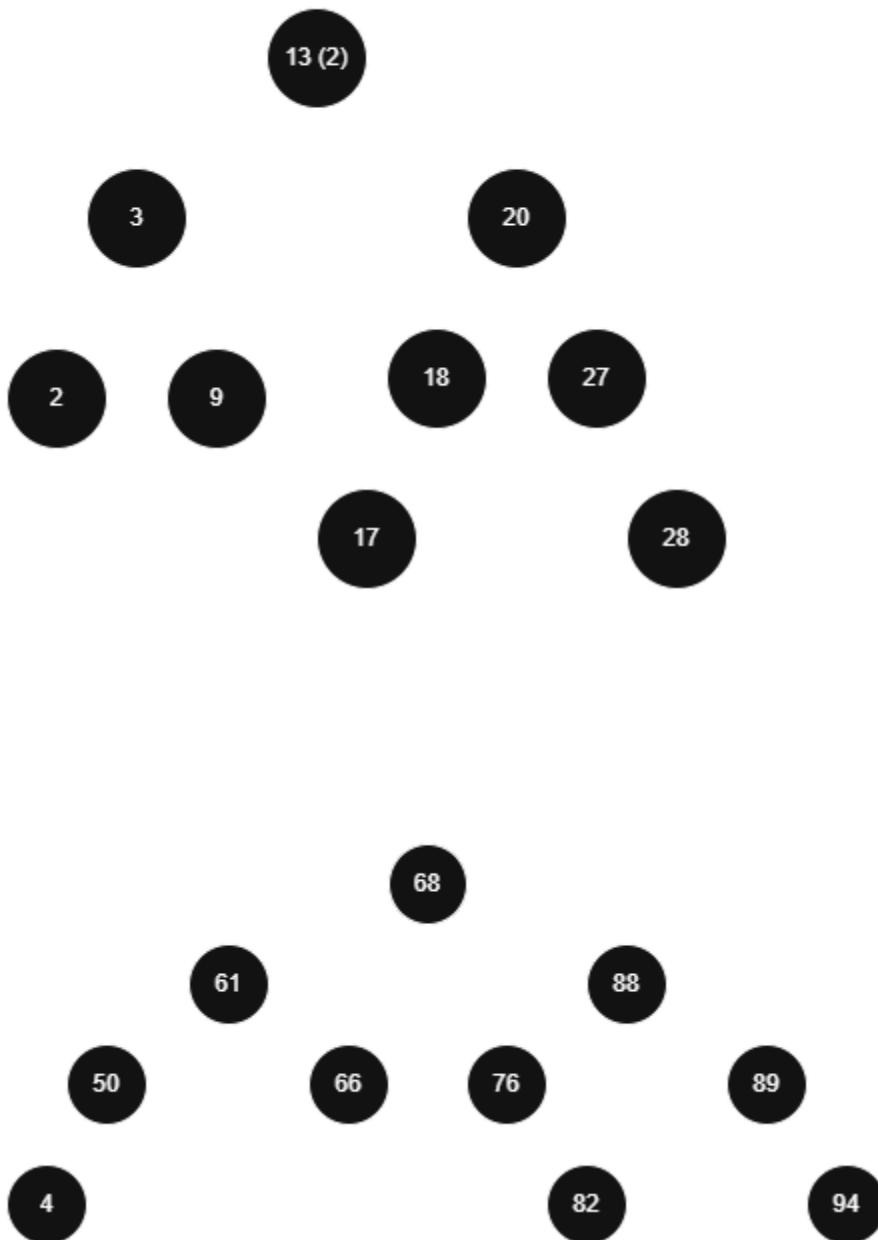
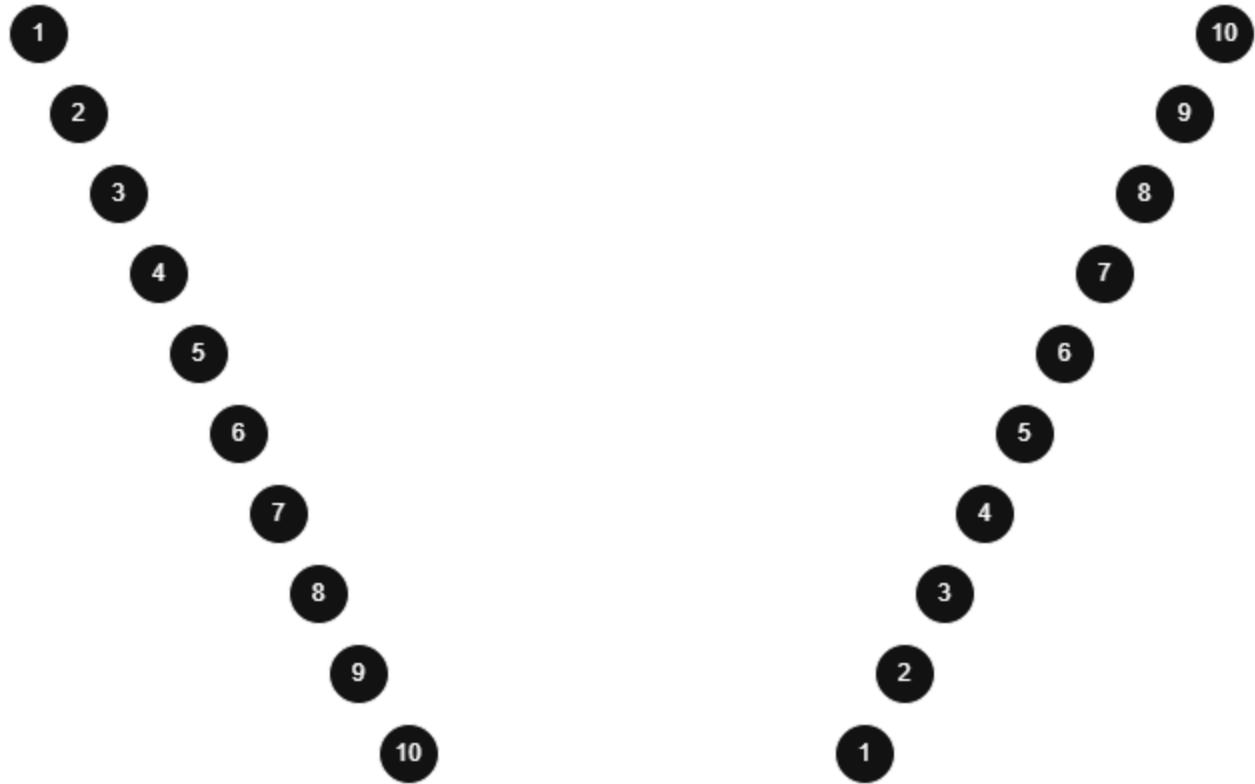


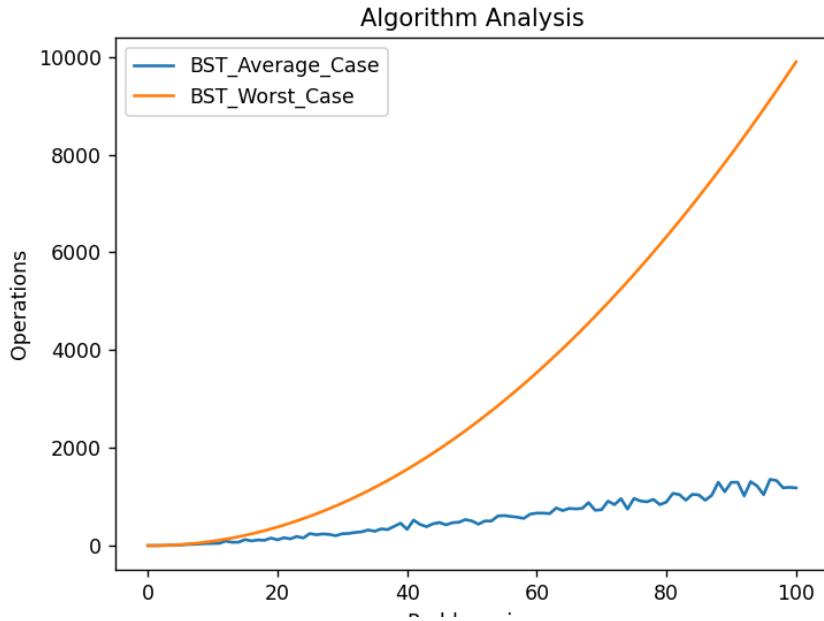
Task One



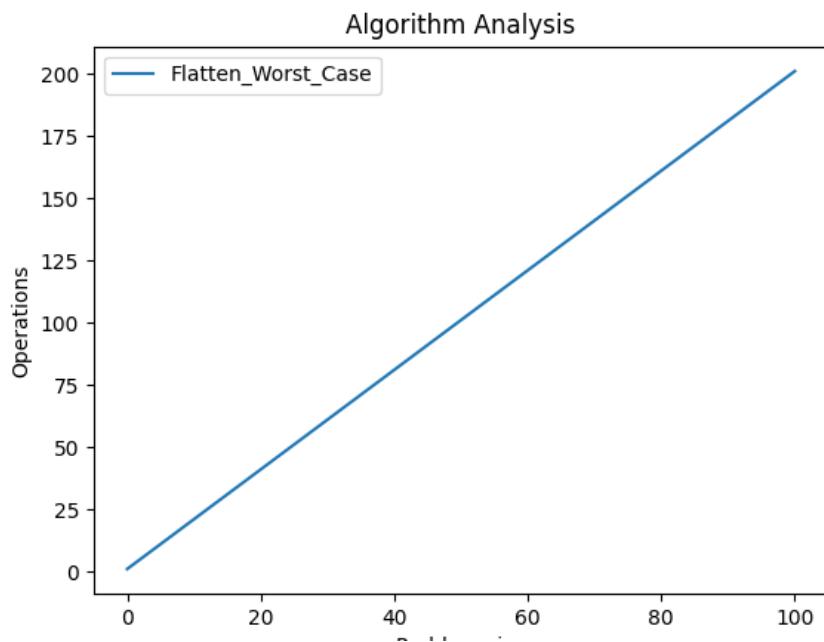


Task Two

Average and Worst-Case BST



The graph shows the performance degradation when the Binary Search Tree is out of balance. This is because in the case of a tree being out of balance, traversing the tree doesn't cut the tree in half each time, which is necessary to maintain a performance of $O(\log n)$.



Flatten

Flatten is $O(n)$, because it is a tree traversal. It will read however many nodes are in the tree and write them to the list.