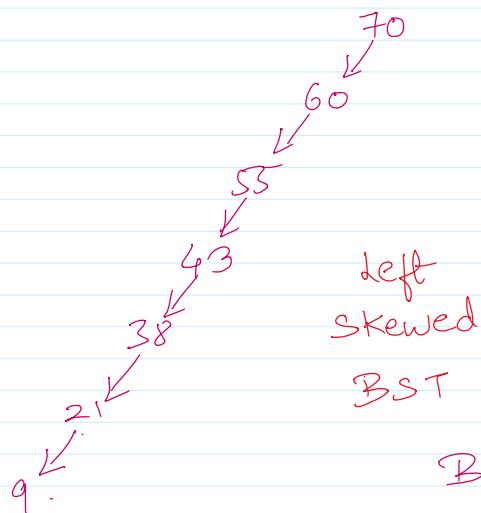


70 60 55 43 38 21 9.

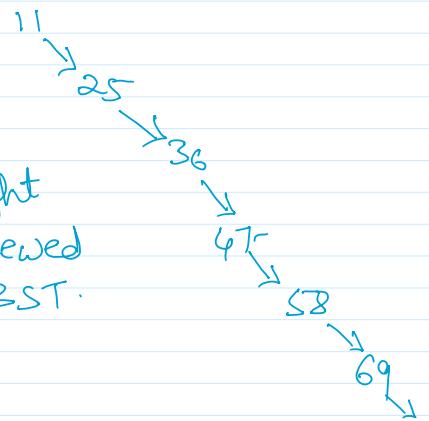
11 25 36 47 58 69 79.



Left Skewed
BST

OPS
O(n)

Right
Skewed
BST.



79.

Balance Factor of a node

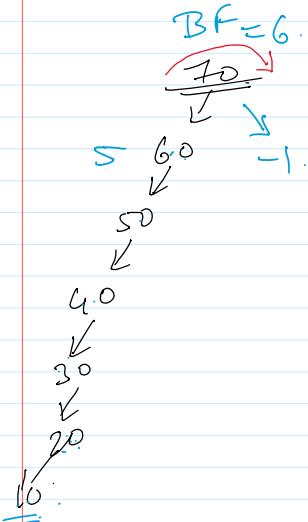
=

height of its Left Sub Tree

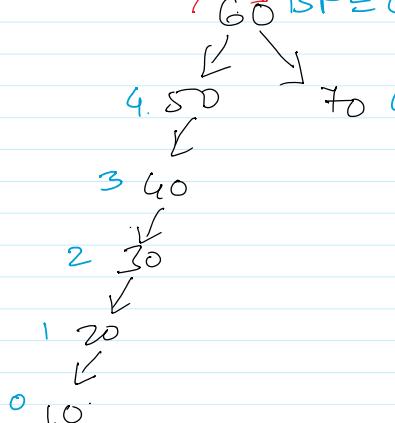
height of its Right Sub Tree.

BF should be either -1 or 0 or +1

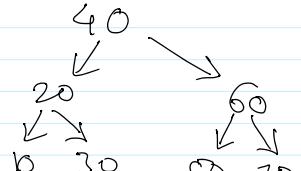
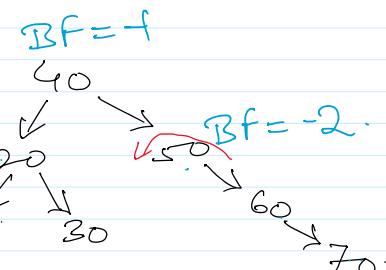
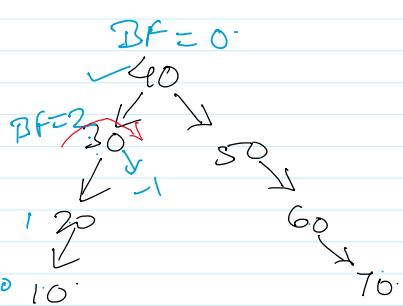
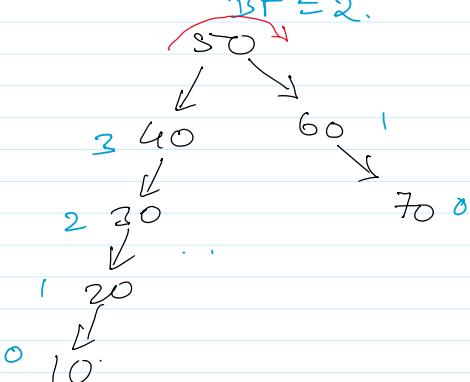
70 60 50 40 30 20 10.



Root
60 BF = 4.



BF = 2.



-1 -1

1 - - 1

If the tree is imbalanced, to balance it, we check the

balance factor of each node.

Balance Factor = Height of Left Sub-Tree - Height of Right Sub-Tree.

If the Balance Factor of the node is Less Than -1 , We perform the Left Rotation On that Node.

If the Balance Factor of the node is Greater tha +1, we perform the right rotation on that node.