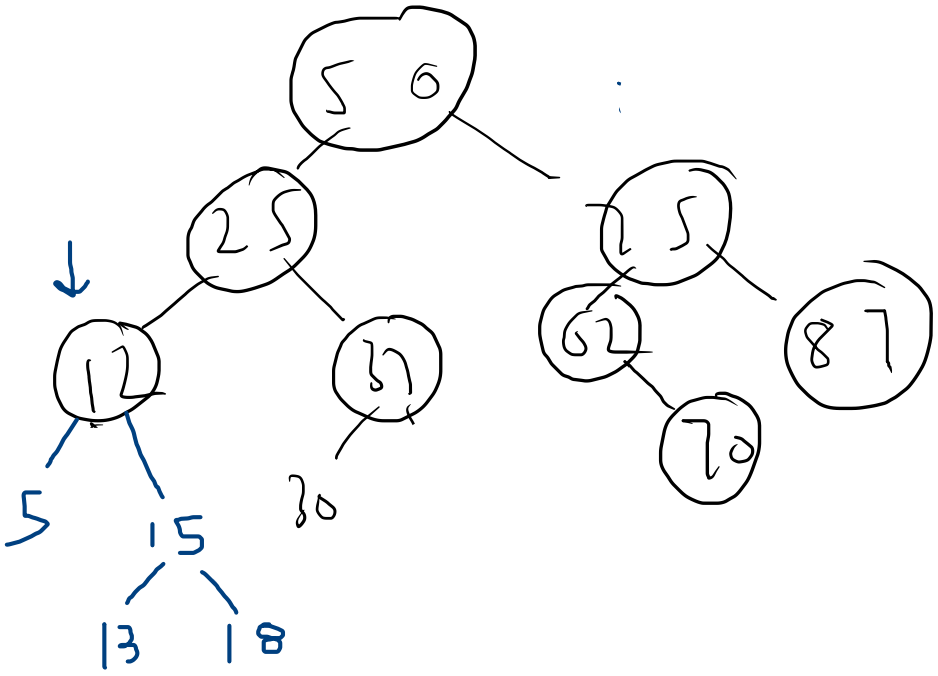
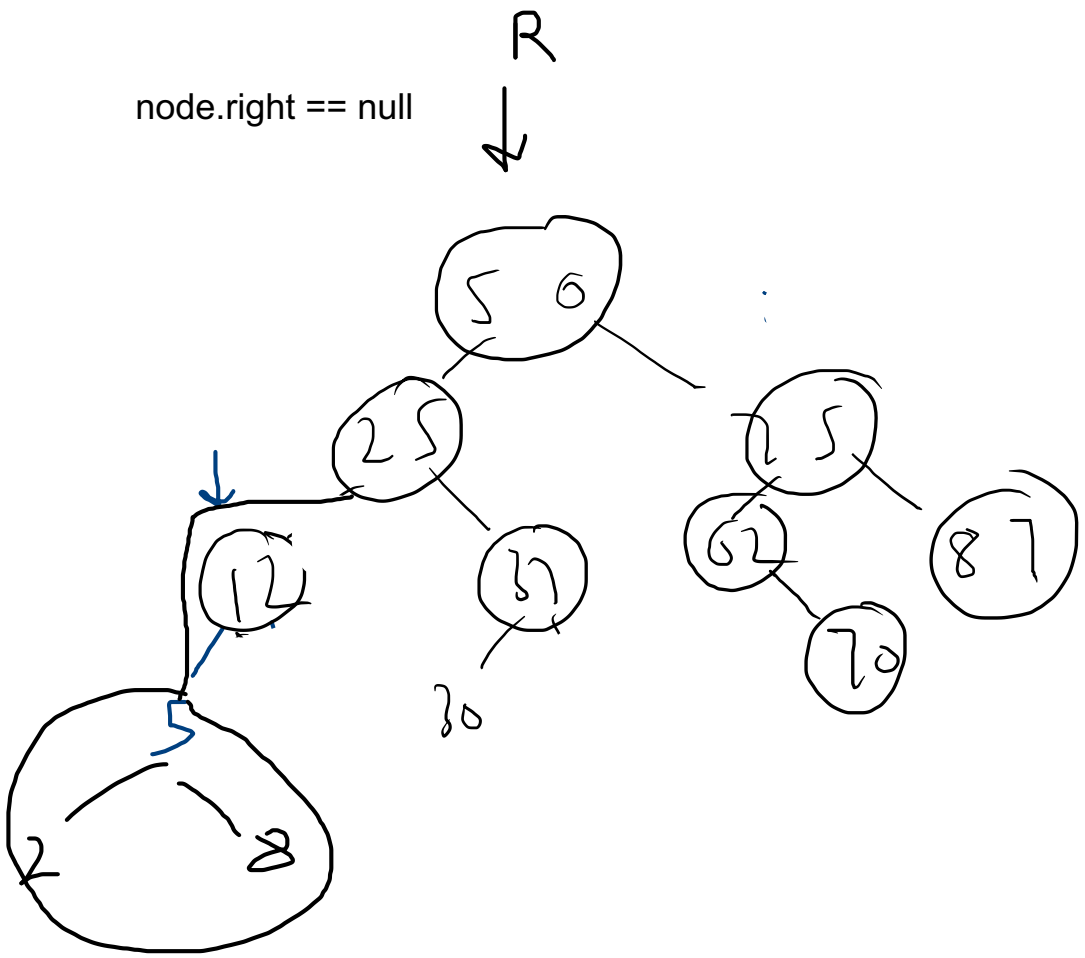
Delete Node From BST

Step1: Find Given Key



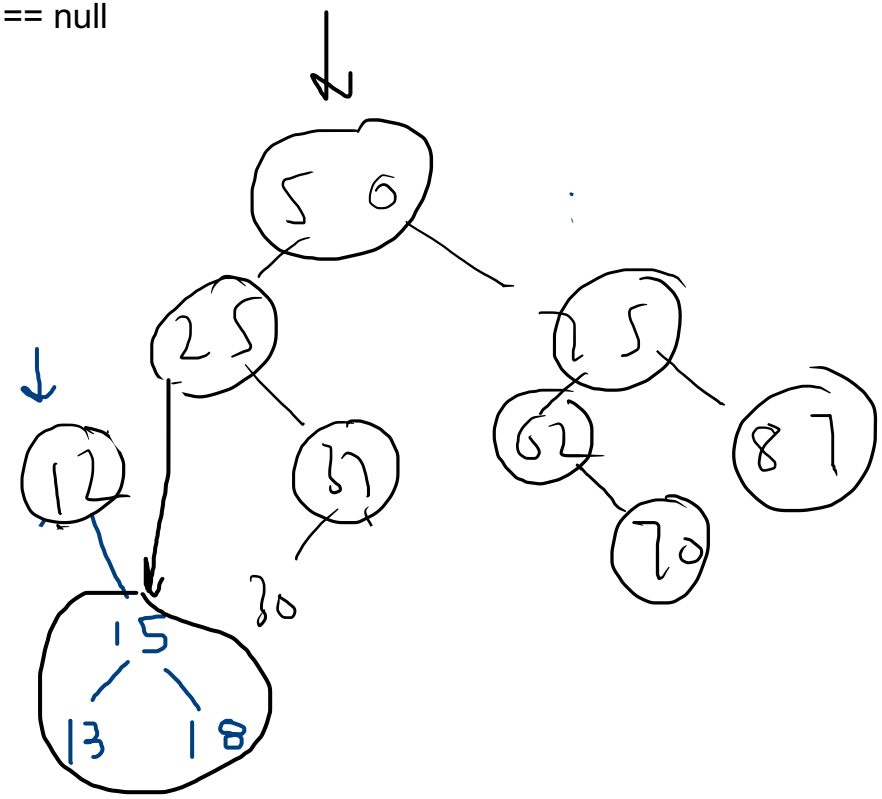
P 1

node.right == null



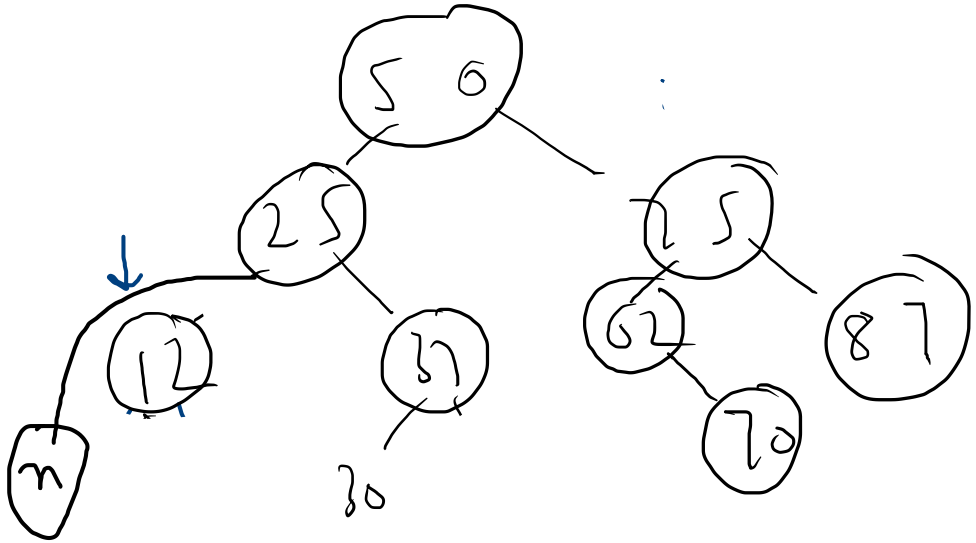
P2

node.left == null



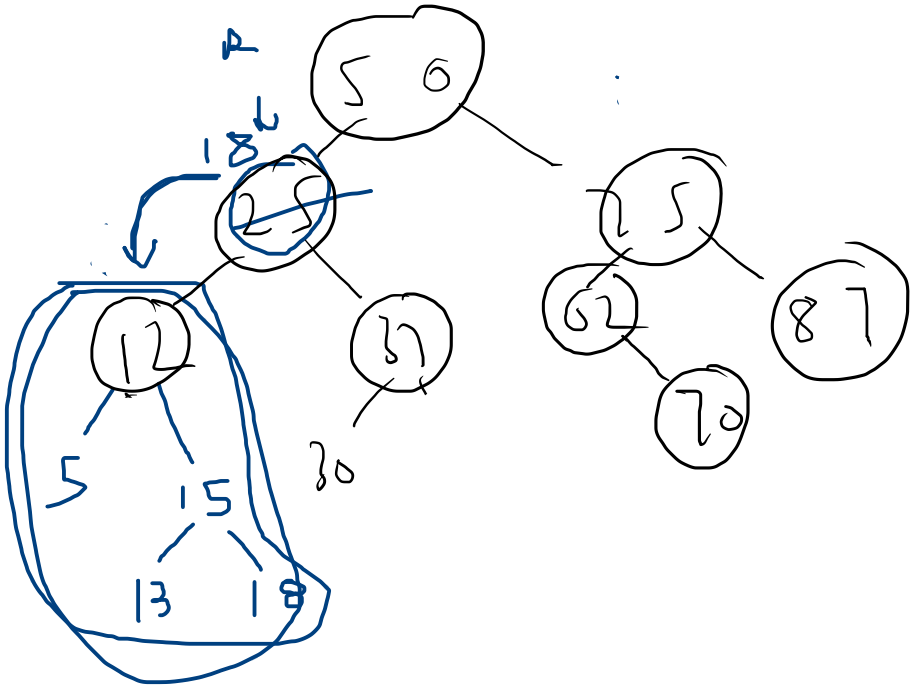
p 3

node.left == null && node.right == null

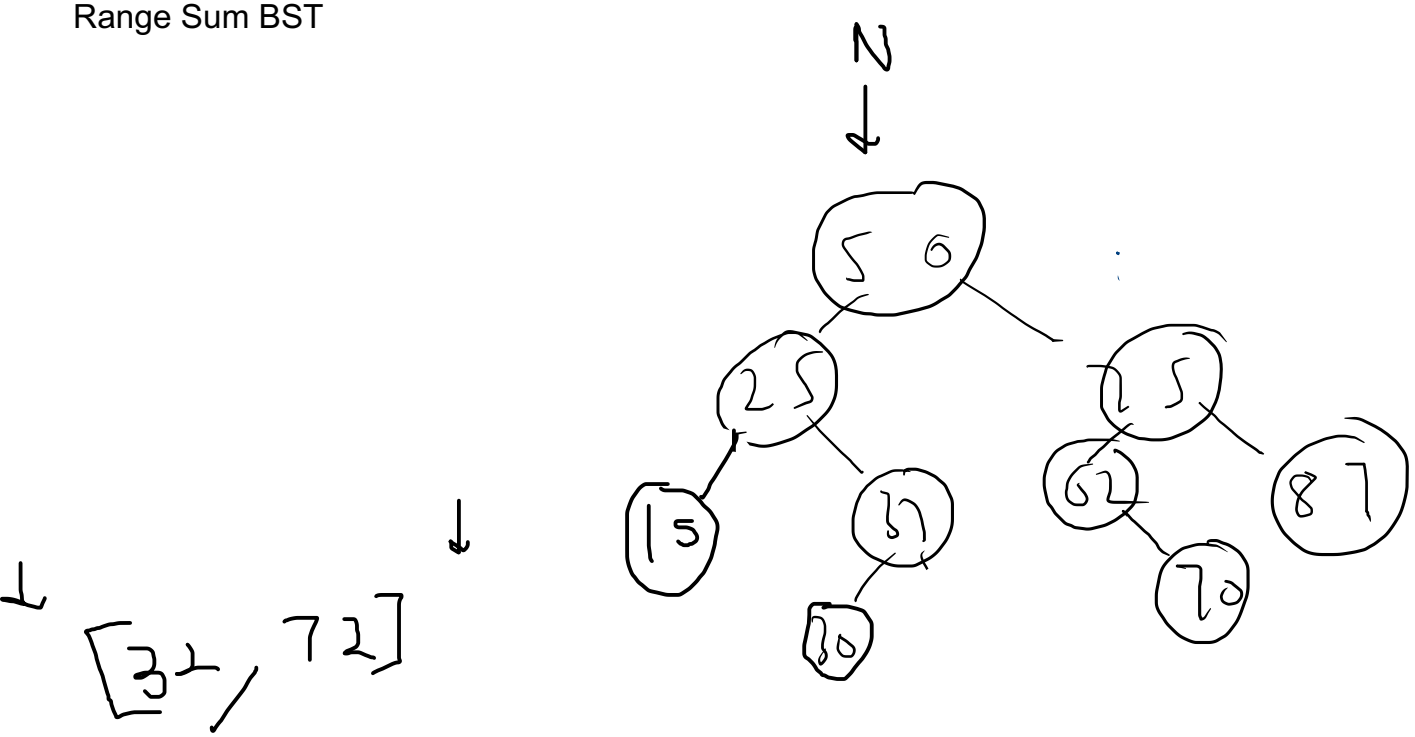


P9

node.left != null && node.right != null

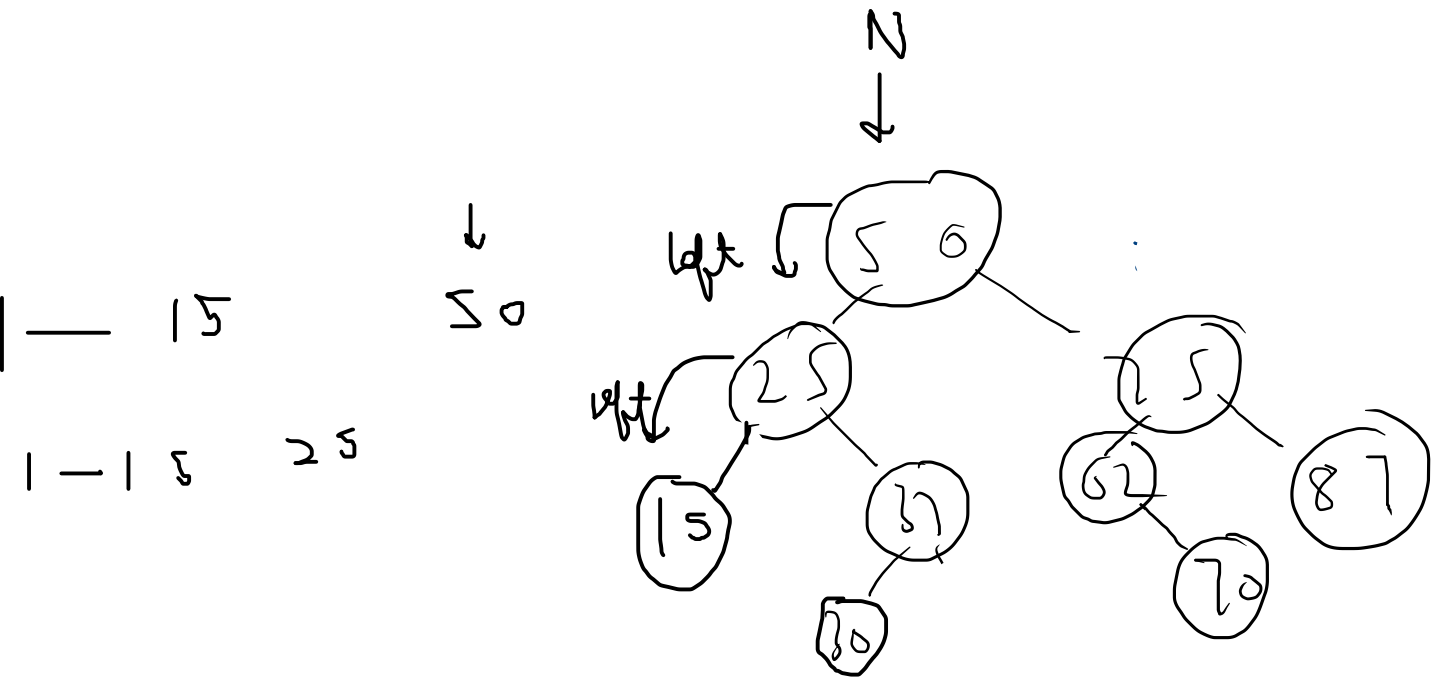


Range Sum BST

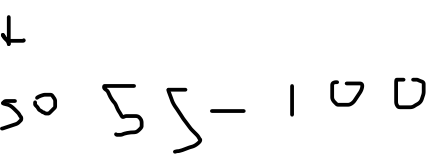


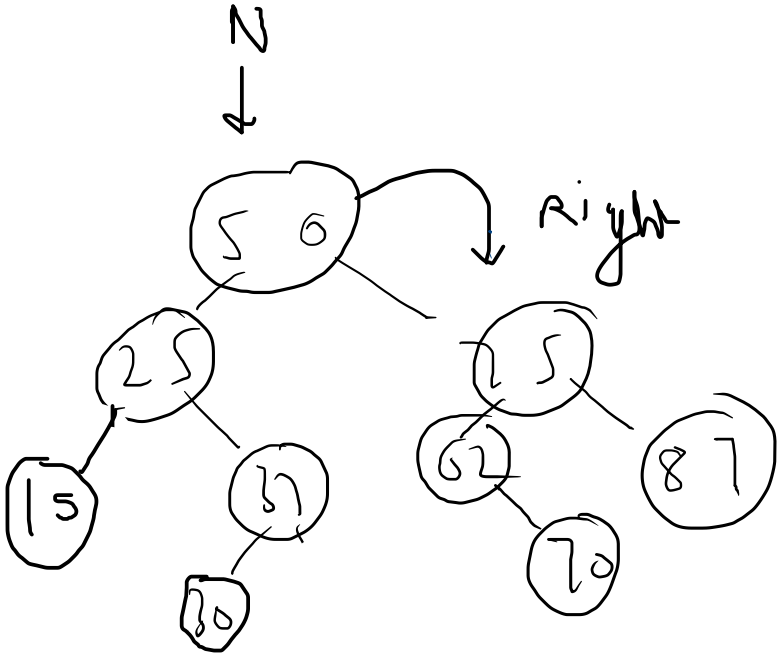
[7, 12]

P1 : Node.val > range



p2: node.val < range





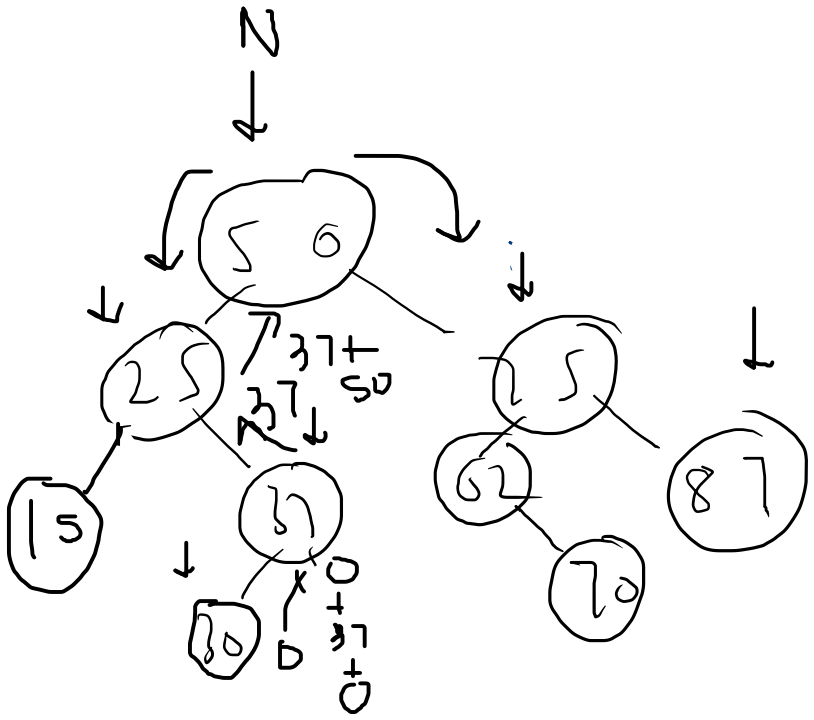
node.val in between the range

.

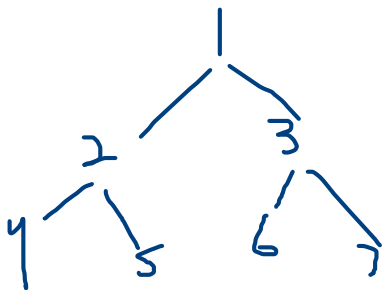
50

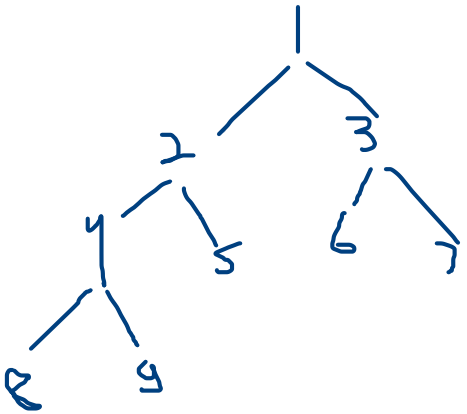
37 - 75

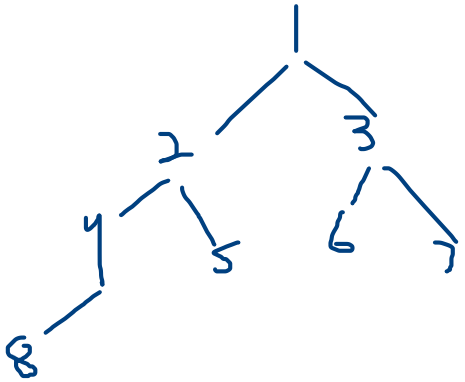
75 75

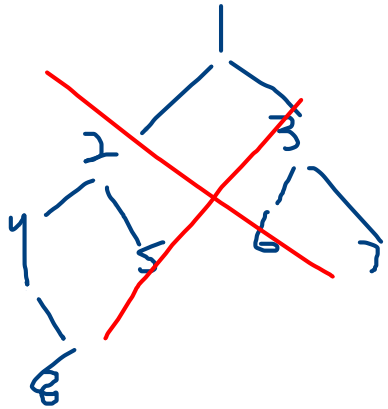


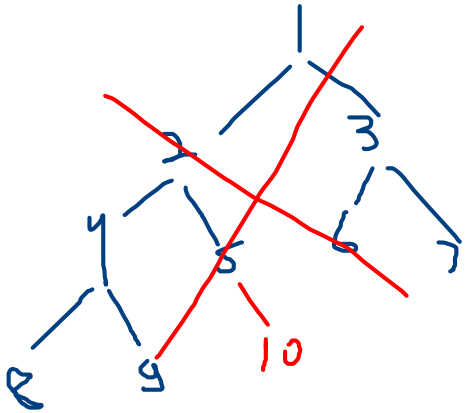
Complete Binary Tree





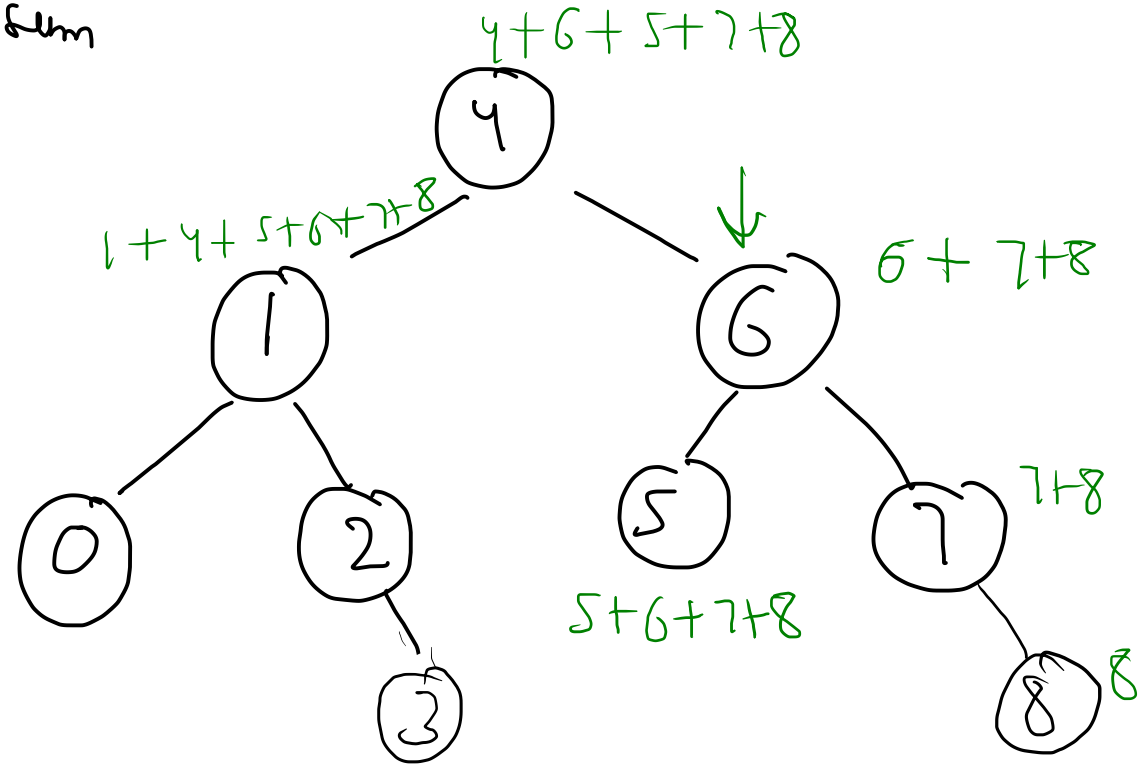






height of tree = log(n)

BST → greater sum

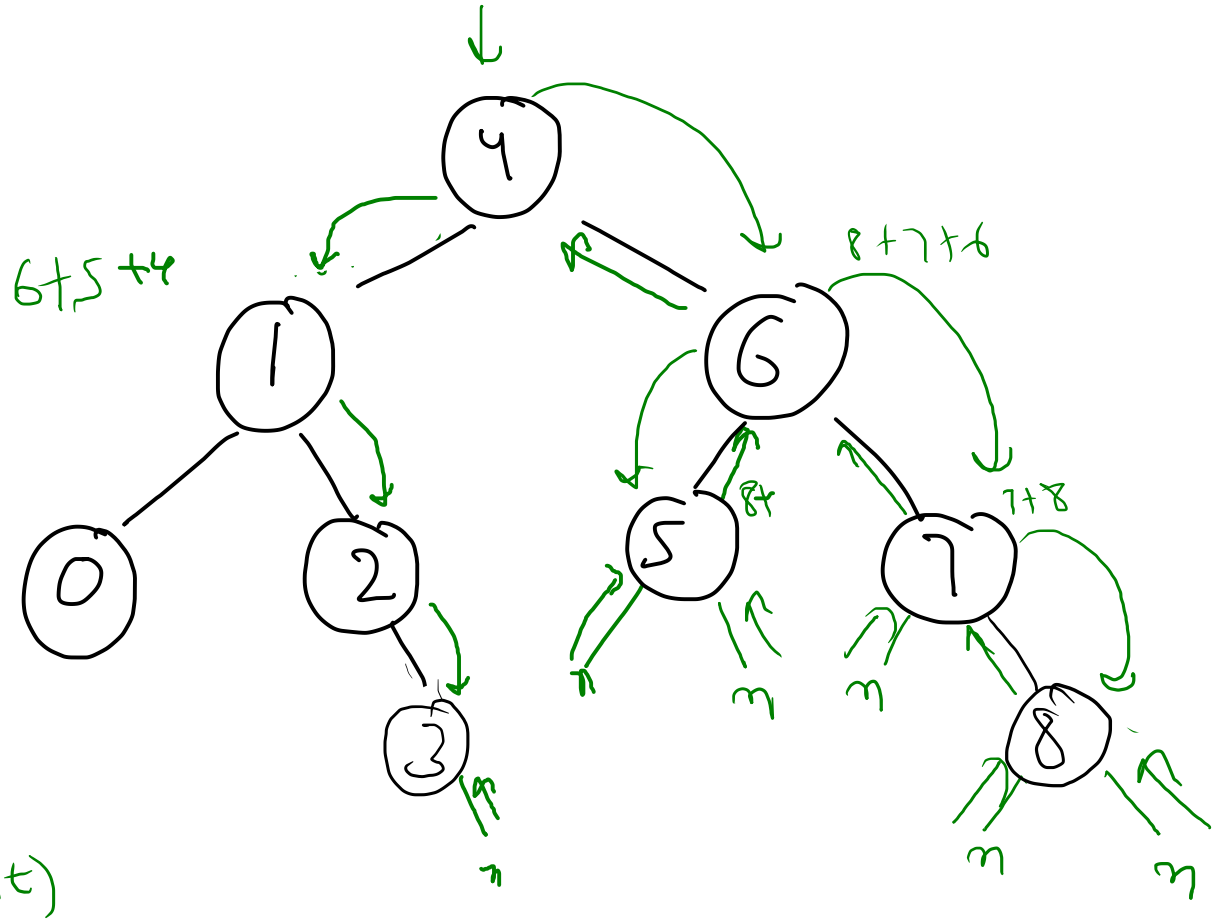


M1

global

sum = 0

8+7+6+5+4



void dfs(root)

$4+5+6+7+8=30$