**Size of Largest BST in Binary Tree**

#include <bits/stdc++.h>

class Node{

public :

int maxNode;

int minNode;

int maxSize;

Node(int minNode, int maxNode, int maxSize){

this->maxNode = maxNode;

this->minNode = minNode;

this->maxSize = maxSize;

}

};

Node bst(TreeNode<int>\* root){

if(!root)

return Node(INT\_MAX, INT\_MIN,0);

auto left = bst(root->left);

auto right = bst(root->right);

if(left.maxNode<root->data && root->data < right.minNode){

return Node(min(root->data,left.minNode), max(root->data,right.maxNode),left.maxSize + right.maxSize +1);

}

return Node(INT\_MIN,INT\_MAX, max(left.maxSize,right.maxSize));

}

int largestBST(TreeNode<int>\* root)

{

return bst(root).maxSize;

}