**Diameter Of Binary Tree**

int find(TreeNode<int>\* root, int &maxi){

if(root==NULL) return 0;

int lh = find(root->left,maxi);

int rh = find(root->right, maxi);

maxi = max(maxi, lh+rh);

return 1 + max(lh,rh);

}

int diameterOfBinaryTree(TreeNode<int> \*root)

{

// Write Your Code Here.

int diameter = 0;

find(root,diameter);

return diameter;

}