**SOLUTION**

class Solution {

public:

int kthSmallest(TreeNode\* root, int k) {

int count = 0;

int res = 0;

inorder(root,k,count,res);

return res;

}

void inorder(TreeNode\* root, int k, int& count, int& res){

if(root->left)

inorder(root->left,k,count,res);

count++;

if(count == k){

res = root->val;

return;

}

if(root->right)

inorder(root->right,k,count,res);

}

};

**TIME COMPLEXITY= O(N)**

**SPACE COMPLEXITY= O(N)**