https://course.acciojob.com/idle?question=57d8deff-acbe-407a-b504-6fe20f94770e

EASY

Max Score: 30 Points

## **Sum of all Nodes**

Give an algorithm for finding the sum of all elements in a binary tree.

## **Input Format**

Given the root of the tree.

## **Output Format**

Return the sum of all nodes.

#### **EXAMPLE 1**

Input:

10 4 6 N N N N

Output:

20

**EXPLANATION** 

10



4 6

#### **EXAMPLE 2**

Input

100 N N

Output:

100

**EXPLANATION** 

Sum of nodes is 100.

#### **CONSTRAINTS**

The number of nodes in the tree is in the range [0, 5000].

1 <= Node.val <= 10000

#### **Topic Tags**

Trees

# My code

// in java import java.util.LinkedList;

```
import java.util.Queue;
import java.io.*;
import java.util.*;
class Node{
  int data;
   Node left:
  Node right;
   Node(int data){
     this.data = data;
     left=null;
     right=null;
}
class Main {
   static Node buildTree(String str){
     if(str.length()==0 || str.charAt(0)=='N'){}
        return null;
     String ip[] = str.split(" ");
     Node root = new Node(Integer.parseInt(ip[0]));
     Queue<Node> queue = new LinkedList<>();
     queue.add(root);
     int i = 1;
     while(queue.size()>0 && i < ip.length) {
        Node currNode = queue.peek();
        queue.remove();
        String currVal = ip[i];
        if(!currVal.equals("N")) {
           currNode.left = new Node(Integer.parseInt(currVal));
```

```
queue.add(currNode.left);
        j++;
        if(i >= ip.length)
           break;
        currVal = ip[i];
        if(!currVal.equals("N")) {
           currNode.right = new Node(Integer.parseInt(currVal));
           queue.add(currNode.right);
        }
        j++;
     return root;
  }
     public static void main (String[] args) throws IOException{
        Scanner sc = new Scanner(System.in);
                 String s = sc.nextLine();
                 Node root = buildTree(s);
                 Solution tree = new Solution();
                 int result=tree.addBT(root);
                 System.out.print(result);
     }
}
class Solution{
  public int addBT(Node root)
     {
     //Write code here
```