https://course.acciojob.com/idle?question=dba1e72d-2519-4374-a99 0-90e182f7c344

EASY

Max Score: 30 Points

Check if two Binary Trees are Mirror

Given two Binary Trees root1 and root2, write a function that returns true if two trees are mirror of each other, else false.

Note: You just need to implement the areMirror() function and return true if two trees are mirror of each other, else false.

Input Format

First line contains a string representing the tree with root1. Second line contains a string representing the tree with root2.

The values in the string are in the order of level order traversal of the tree where, numbers denote node values, and a character "N" denotes NULL child.

Output Format

Print true if two trees are mirror of each other, else false.

Example 1

Input

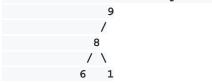
9 8 N 6 1 N N N N 9 N 8 1 6 N N N N

Output

true

Explanation

The first tree can be represented as:-



The second tree can be represented as:-

```
9
\
8
/\
1 6
```

The first tree is a mirror image of second tree and vice-versa.

Example 2

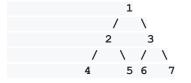
Input

Output

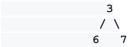
false

Explanation

The first tree can be represented as:-



The second tree can be represented as:-



The first tree is not a mirror image of second tree and vice-versa.

Constraints

The number of nodes in the both the trees are in the range [1, 500]

```
-500 <= Node.data <= 500
```

Topic Tags

- Recursion
- Trees

My code

// n 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){
    // System.out.print(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;
  void inOrder(Node node) {
     if (node == null) {
       return;
     inOrder(node.left);
     System.out.print(node.data + " ");
     inOrder(node.right);
  }
     public static void main (String[] args) throws IOException{
          //BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
             Scanner sc = new Scanner(System.in);
               String s = sc.nextLine();
        String s1 = sc.nextLine();
               Node root1 = buildTree(s);
        Node root2 = buildTree(s1);
               Solution tree = new Solution();
               boolean ans = tree.areMirror(root1,root2);
        System.out.println(ans);
     }
```

}

}