Min distance between two given nodes of a **Binary Tree**

Given a binary tree and two node values your task is to find the minimum distance between them.

```
Input: 1
/
 23
a = 2, b = 3 Output: 2 Explanation: The tree formed is:
   1
  / \
 2
    3
We need the distance between 2 and 3.
```

Being at node 2, we need to take two

steps ahead in order to reach node 3.

path.append(root.data)

The path followed will be: 2 -> 1 -> 3. Hence, the result is 2.

```
def findDist(root,a,b):
    if root:
        path1 = []
        path2 = []
        helper(root, a, path1)
        helper(root, b, path2)
        i = 0
        while i<len(path1) and i<len(path2):
            if path1[i]!=path2[i]:
               break
            i = i+1
        return (len(path1)+len(path2)-2*i)
    else:
       return 0
#Way to find path from root to a node
def helper(root, key, path):
   if root is None:
        return False
```

```
if root.data == key:
    return True

if helper(root.left, key,path) or helper(root.right, key,path):
    return True

path.pop(-1)
return False
```