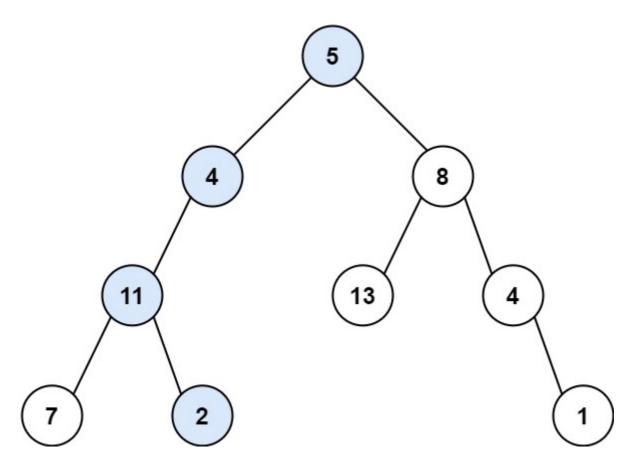
## 112. Path Sum

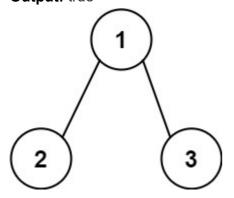
Given the root of a binary tree and an integer targetsum, return true if the tree has a root-to-leaf path such that adding up all the values along the path equals targetsum.

A leaf is a node with no children.



Input: root = [5,4,8,11,null,13,4,7,2,null,null,null,1], targetSum = 22

Output: true



**Input:** root = [1,2,3], targetSum = 5

Output: false

```
def hasPathSum(self, root: TreeNode, targetSum: int) -> bool:
return self.helper(root,targetSum)
```

```
def helper(self,root,targetSum):
if root is None:
    return 0
if root.left is root.right:
    targetSum = targetSum-root.val
    return True if targetSum==0 else False
lt = self.helper(root.left,targetSum-root.val)
rt = self.helper(root.right,targetSum-root.val)
return lt or rt
```