

112. Path Sum

题目描述: <https://leetcode.com/problems/path-sum/>

给定一棵二叉树，判断有无给定长度额path。

解题思路:

使用val记录到根节点到当前节点的路径长度。

代码:

```
/**
 * Definition for a binary tree node.
 * struct TreeNode {
 *     int val;
 *     TreeNode *left;
 *     TreeNode *right;
 *     TreeNode(int x) : val(x), left(NULL), right(NULL) {}
 * };
 */
class Solution {
public:
    bool hasPathSum(TreeNode* root, int sum) {
        stack<TreeNode*> s;
        if(root == NULL)
            return false;
        s.push(root);
        while(!s.empty()){
            TreeNode * n = s.top();
            s.pop();
            if(n->left != NULL){
                n->left->val += n->val;
                s.push(n->left);
            }

            if(n->right != NULL){
                n->right->val += n->val;
                s.push(n->right);
            }
            if(n->left == NULL && n->right == NULL){
                if(n->val == sum)
                    return true;
            }
        }
        return false;
    }
};
```