Problem Link:

<https://leetcode.com/problems/path-sum/description/>

Solution:

/\*\*

\* Definition for a binary tree node.

\* struct TreeNode {

\* int val;

\* TreeNode \*left;

\* TreeNode \*right;

\* TreeNode() : val(0), left(nullptr), right(nullptr) {}

\* TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}

\* TreeNode(int x, TreeNode \*left, TreeNode \*right) : val(x), left(left), right(right) {}

\* };

\*/

class Solution {

public:

bool hasPathSum(TreeNode\* root, int targetSum) {

if(!root)

{

return false;

}

if(!root->left && !root->right)

{

return root->val == targetSum;

}

targetSum -= root->val;

return hasPathSum(root->left, targetSum) || hasPathSum(root->right, targetSum);

}

};