404. Sum of Left Leaves
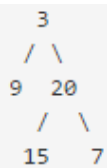
QuestionEditorial Solution

- Total Accepted: **16351**
- Total Submissions: **35859**
- Difficulty: **Easy**
- Contributors: **Admin**

Find the sum of all left leaves in a given binary tree.

```
    3
   / \
  9  20
     / \
    15  7

There are two left leaves in the binary tree, with values 9 and 15 respectively. Return 24.
```

```cpp
/**
 * 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:

    void sumOfLeftLeavesHelp(TreeNode* root, int flag, vector<int> &result)
    {
        TreeNode *tree = root;
        if(root==NULL) return;
        if(tree->left==NULL && tree->right==NULL && flag==1)
        {
            result.push_back(tree->val);
            return;
        }
        sumOfLeftLeavesHelp(root->left,1,result);
        sumOfLeftLeavesHelp(root->right,0,result);
    }


    int sumOfLeftLeaves(TreeNode* root) {
        vector<int> result;
        sumOfLeftLeavesHelp(root,-1,result);
        int z = accumulate(result.begin(),result.end(),0);
        return z;
    }
};
```