

404. Sum of Left Leaves

Difficulty **Easy**

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Description

Hints

Solution

Submissions

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

Example:

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

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

```
public class L404 {
    /*
     * 分析：左叶子节点强调首先是叶子节点，同时又要要是左节点，才加入运算。
     * 采用递归的方法
     * 如果二叉树为空，直接返回0；
     * 如果二叉树的左子树即为左叶子节点（左子树没有左右孩子节点），返回左叶子节点的val值+sumOfLeftLeaves
     * （右子树）的值
     * 如果二叉树的左、右子树都存在孩子节点，则返回sumOfLeftLeaves（左子树）+sumOfLeftLeaves（右子树）
     */
    public class TreeNode {
        int val;
        TreeNode left;
        TreeNode right;
        public TreeNode(int x) {
            this.val = x;
        }
    }

    public int sumOfLeftLeaves(TreeNode root) {
        int sum = 0;
        if (root == null)
            return 0;
        if (root.left != null && root.left.left == null && root.right.right == null)
            return root.left.val + sumOfLeftLeaves(root.right);
        else {
            return sumOfLeftLeaves(root.left) + sumOfLeftLeaves(root.right);
        }
    }
}
```