404 左叶子之和

- 递归

```java
class Solution {
    public int sumOfLeftLeaves(TreeNode root) {
        if(root == null) return 0;
        int res = 0;
        //判断节点是否是左叶子节点，如果是则将它的和累计起来
        if(root.left != null && root.left.left == null && root.left.right ==
null){
            res += root.left.val;
        }
        return sumOfLeftLeaves(root.left) + sumOfLeftLeaves(root.right) + res;
    }
}
```

- 广度优先

```java
class Solution {
    public int sumOfLeftLeaves(TreeNode root) {
        if (root == null) return 0;
        Queue<TreeNode> queue = new LinkedList<TreeNode>();
        queue.offer(root);
        int ans = 0;
        while (!queue.isEmpty()) {
            TreeNode node = queue.poll();
            if (node.left != null) {
                if (isLeafNode(node.left)) ans += node.left.val;
                else queue.offer(node.left);
            }
            if (node.right != null) {
                if (!isLeafNode(node.right)) queue.offer(node.right);
            }
        }
        return ans;
    }
    public boolean isLeafNode(TreeNode node) {
        return node.left == null && node.right == null;
    }
}
```