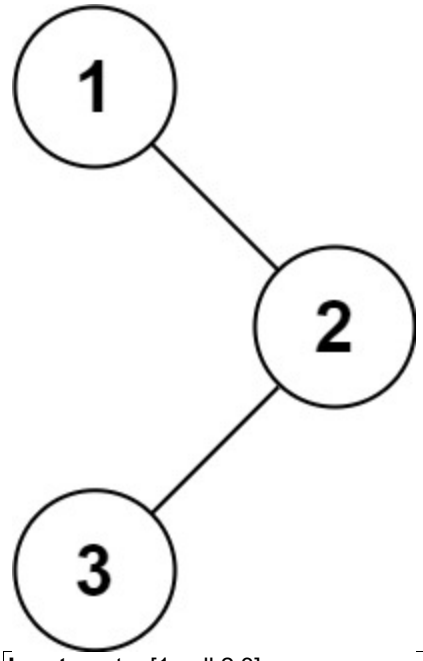
Leetcode Problem 2. (Easy)

Binary Tree Preorder Traversal

Given the root of a binary tree, return *the preorder traversal of its nodes' values.*

Example 1:



Input: root = [1,null,2,3]
Output: [1,2,3]

Example 2:

Input: root = []
Output: []

Example 3:

Input: root = [1]
Output: [1]

Constraints:

- The number of nodes in the tree is in the range [0, 100].
- -100 <= Node.val <= 100

Link: https://leetcode.com/problems/binary-tree-preorder-traversal/

```java
class Solution {
    public List<Integer> preorderTraversal(TreeNode root) {

    List<Integer> result = new ArrayList<>();
    if (root == null) {
        return result;
    }
    Stack<TreeNode> stack = new Stack<>();
    stack.push(root);
    while (!stack.isEmpty()) {
        TreeNode node = stack.pop();
        result.add(node.val);
        if (node.right != null) {
            stack.push(node.right);
        }
        if (node.left != null) {
            stack.push(node.left);
        }
    }
    return result;
}
}
```