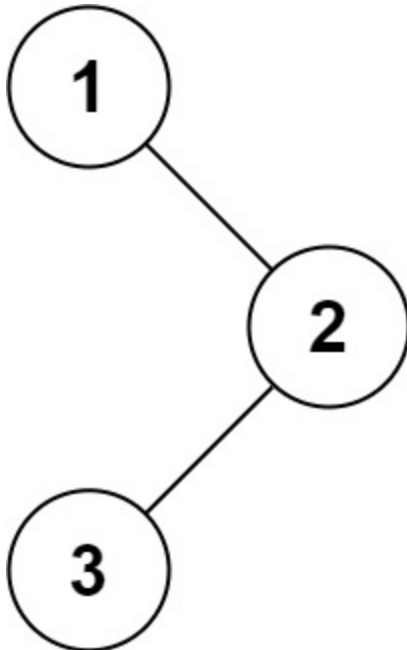


Leetcode Problem 2. (Easy)

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].
- $-100 \leq \text{Node.val} \leq 100$

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

```

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;
    }
}

```

<

Problem List

>

Premium

🔔 0

👤

Description

Editorial

Solutions (5.7K)

Submissions

Accepted

Next question

145. Binary Tree Postorder Traversal

More challenges

255. Verify Preorder Sequence in Binary Search Tree

589. N-ary Tree Preorder Traversal

2583. Kth Largest Sum in a Binary Tree

All statuses

All languages

Accepted

a few seconds ago

Java

Accepted

a few seconds ago

Java

Sakib Rahman

May 05, 2023 20:23

Details

+ Solution

Java

Sorry, there are not enough accepted submissions to show data

Runtime 0 ms

Beats 100%

Memory 41.1 MB

Beats 17.92%

Click the distribution chart to view more details

Notes

Write your notes here

Related Tags

Select tags

0/5

```

/**
 * Definition for a binary tree node.
 * public class TreeNode {
 *     int val;
 *     TreeNode left;
 *     TreeNode right;
 *     TreeNode() {}
 *     TreeNode(int val) { this.val = val; }
 *     TreeNode(int val, TreeNode left, TreeNode right) {
 *         this.val = val;
 *         this.left = left;
 *         this.right = right;
 *     }
 * }

```

Console

Run

Submit