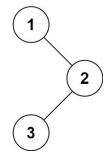
94. Binary Tree Inorder Traversal

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

Example 1:



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

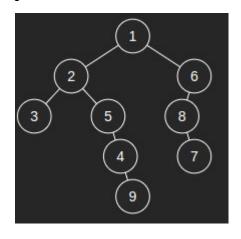
Example 2:

Input: root = []
Output: []

Example 3:

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

Example 4:



Input:

1

[1, 2, 6, 3, 5, 8, null, null, null, null, 4, null, 7, null

,9]

Output: [3,2,5,4,9,1,8,7,6]

Constraints:

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

Follow up: Recursive solution is trivial, could you do it iteratively?

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```
Morris
    Time complexity: O(n)
    Space complexity: 0(1)
    n: #nodes in the binary tree
*/
typedef std::vector<int> vi;
class Solution {
    public:
        vi inorderTraversal(TreeNode* root) {
            vi ans;
            TreeNode* cur=root;
            while(cur){
                TreeNode* ptr=cur->left;
                if(!ptr){
                    ans.push_back(cur->val);
                    cur=cur->right;
                }
                else{
                    while(ptr->right) ptr=ptr->right;
                    ptr->right=cur;
                    TreeNode* temp=cur;
                    cur=cur->left;
                    temp->left=nullptr;
                }
            return ans;
        }
};
```