# Definition for a binary tree node.

# class TreeNode:

# def \_\_init\_\_(self, val=0, left=None, right=None):

# self.val = val

# self.left = left

# self.right = right

class Solution:

def inorderTraversal(self, root: Optional[TreeNode]) -> List[int]:

ans = []

stack = []

while stack or root:

if root:

stack.append(root)

root = root.left

else:

tmpNode = stack.pop()

ans.append(tmpNode.val)

root = tmpNode.right

return ans