

In-order Traversal Of Binary Tree (iterative)

```
1 class Solution(object):
2     def inOrder(self, root):
3         """
4         input: TreeNode root
5         return: Integer[]
6         """
7         # write your solution here
8         if not root:
9             return []
10        stack = [(root, 1)]
11        output = []
12        while stack:
13            node, count = stack.pop()
14            if count == 2:
15                output.append(node.val)
16                if node.right:
17                    stack.append((node.right, 1))
18            if count == 1:
19                stack.append((node, count + 1))
20                if node.left:
21                    stack.append((node.left, 1))
22        return output
```