Binary Tree Preorder/Inorder/Postorder Traversal

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

Preorder	Inorder	Postorder
1	1	1
2	2	2
3	3	3
Example 1:	Example 1:	Example 1:
<pre>Input: root = [1,null,2,3]</pre>	<pre>Input: root = [1,null,2,3]</pre>	<pre>Input: root = [1,null,2,3]</pre>
Output: [1,2,3]	Output: [1,3,2]	Output: [3,2,1]
Example 2:	Example 2:	Example 2:
<pre>Input: root = []</pre>	<pre>Input: root = []</pre>	<pre>Input: root = []</pre>
Output: []	Output: []	Output: []
Example 3:	Example 3:	Example 3:
<pre>Input: root = [1]</pre>	<pre>Input: root = [1]</pre>	<pre>Input: root = [1]</pre>
Output: [1]	Output: [1]	Output: [1]

```
/**
* Definition for a binary tree node.
 * public class TreeNode {
      public int val;
       public TreeNode left;
       public TreeNode right;
       public TreeNode(int val=0, TreeNode left=null, TreeNode right=null) {
           this.val = val;
           this.left = left;
           this.right = right;
       }
public class Solution {
    public IList<int> OrderTraversal(TreeNode root) {
        List<int> r = new List<int>();
       Traverse(root,r);
        return r;
    }
    void Traverse(TreeNode root, IList<int> retVal)
        if(root == null)
        {
            return;
        }
        retVal.Add(root.val);
        Traverse(root.left,retVal);
        Traverse(root.right,retVal);
    }
    InOrder
    void Traverse(TreeNode root, IList<int> retVal)
    {
        if(root == null)
        {
            return;
        }
        Traverse(root.left, retVal);
        retVal.Add(root.val);
        Traverse(root.right, retVal);
    }
    void Traverse(TreeNode root, IList<int> retVal)
    {
        if(root == null)
        {
            return;
        }
        Traverse(root.left, retVal);
        Traverse(root.right, retVal);
        retVal.Add(root.val);
    }
}
```