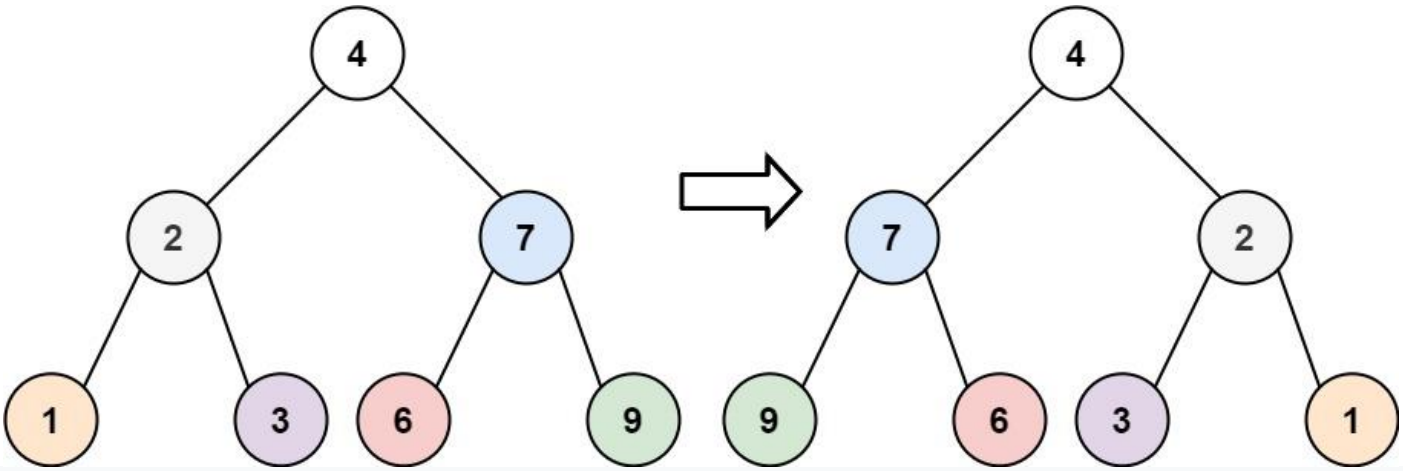
Invert Binary Tree

Given the `root` of a binary tree, invert the tree, and return *its root*.

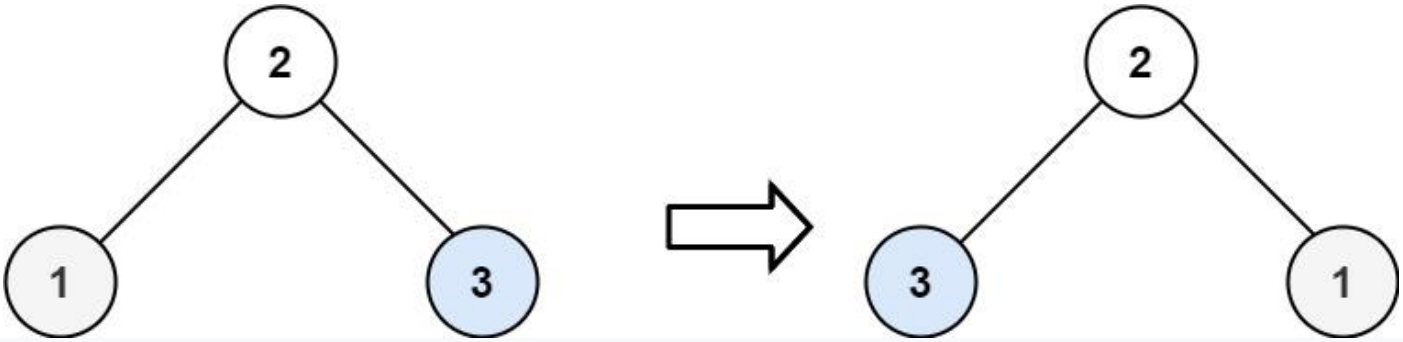
Example 1:




```
Input: root = [4,2,7,1,3,6,9]

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

Example 2:




```
Input: root = [2,1,3]

Output: [2,3,1]
```

Example 3:

```
Input: root = []

Output: []
```

```
/**
 * 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 TreeNode InvertTree(TreeNode root) {
        Swap(root);
        return root;
    }



    void Swap(TreeNode root)
    {
        if(root == null)
        {
            return;
        }
        TreeNode t = root.left;
        root.left = root.right;
        root.right = t;

        Swap(root.left);
        Swap(root.right);
    }
}
```