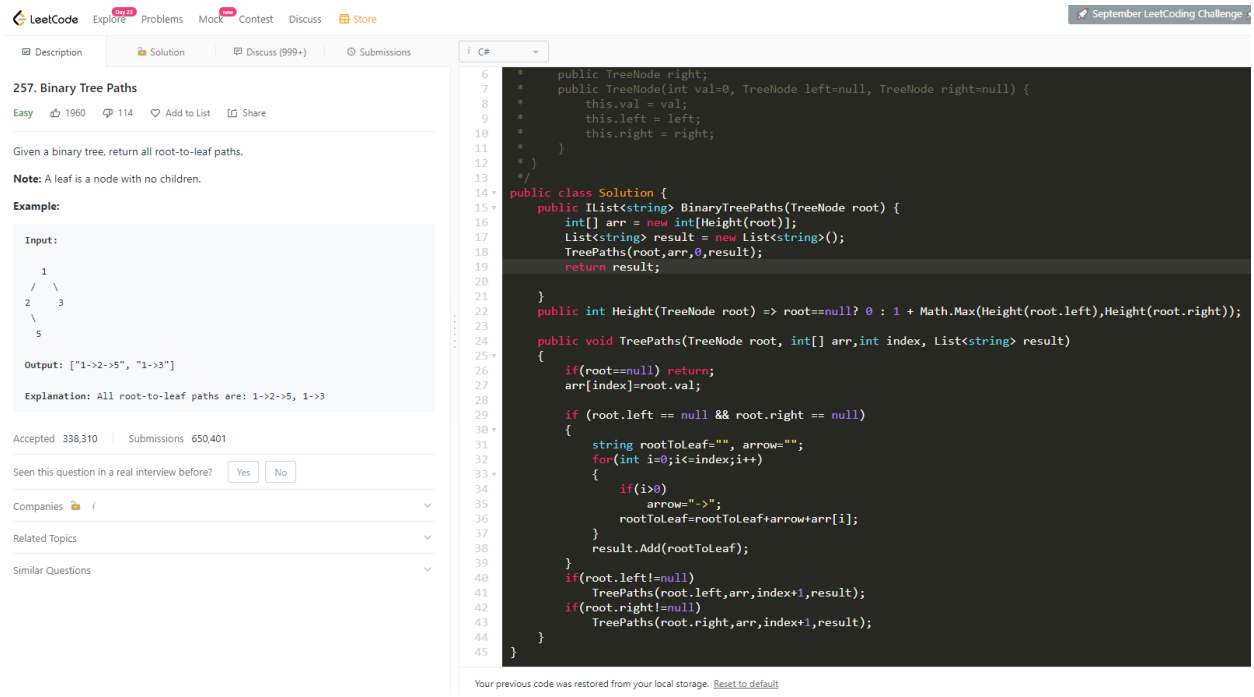
// https://leetcode.com/problems/binary-tree-paths/




```
public class Solution {
    public IList<string> BinaryTreePaths(TreeNode root) {
        int[] arr = new int[Height(root)];
        List<string> result = new List<string>();
        TreePaths(root,arr,0,result);
        return result;

    }
    public int Height(TreeNode root) => root==null? 0 : 1 + Math.Max(Height(root.left),Height(root.right));

    public void TreePaths(TreeNode root, int[] arr,int index, List<string> result)
    {
        if(root==null) return;
        arr[index]=root.val;

        if (root.left == null && root.right == null)
```

```
        {
            string rootToLeaf="", arrow="";
            for(int i=0;i<=index;i++)
            {
                if(i>0)
                    arrow="->";
                rootToLeaf=rootToLeaf+arrow+arr[i];
            }
            result.Add(rootToLeaf);
        }
        if(root.left!=null)
            TreePaths(root.left,arr,index+1,result);
        if(root.right!=null)
            TreePaths(root.right,arr,index+1,result);
    }
}
```

Binary Tree Paths

Submission Detail

209 / 209 test cases passed.

Status: Accepted

Runtime: **248 ms**

Memory Usage: **31.4 MB**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution