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

```
September LeetCoding Challenge §
              🏜 Solution 

□ Discuss (999+) 

□ Submissions
                                                                               ic TreeNode(int val=0, TreeNode left=null, TreeNode right=null) {
this.val = val;
this.left = left;
this.right = right;
 257. Binary Tree Paths
 Given a binary tree, return all root-to-leaf paths.
                                                                             lass Solution {
ic IList<string> BinaryTreePaths(TreeNode root) {
int[] arr = new int[Height(root)];
List<string> result = new List<string>();
TreePaths(root,arr,0,result);
return result;
                                                                              c int Height(TreeNode root) => root==null? 0 : 1 + Math.Max(Height(root.left),Height(root.right));
                                                                                void TreePaths(TreeNode root, int[] arr,int index, List<string> result)
  Explanation: All root-to-leaf paths are: 1->2->5, 1->3
 Accepted 338,310 Submissions 650,401
                                                                                string rootToLeaf="", arrow=
for(int i=0;i<=index;i++)</pre>
 Seen this question in a real interview before? Yes No
                                                                                    arrow="->";
rootToLeaf=rootToLeaf+arrow+arr[i];
 Related Topics
                                                                                 result.Add(rootToLeaf);
                                                                                 oot.right!=null)
TreePaths(root.right,arr,index+1,result);
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.

Runtime: 248 ms

Memory Usage: 31.4 MB

Status: Accepted

Submitted: 0 minutes ago
```

## Accepted Solutions Runtime Distribution

