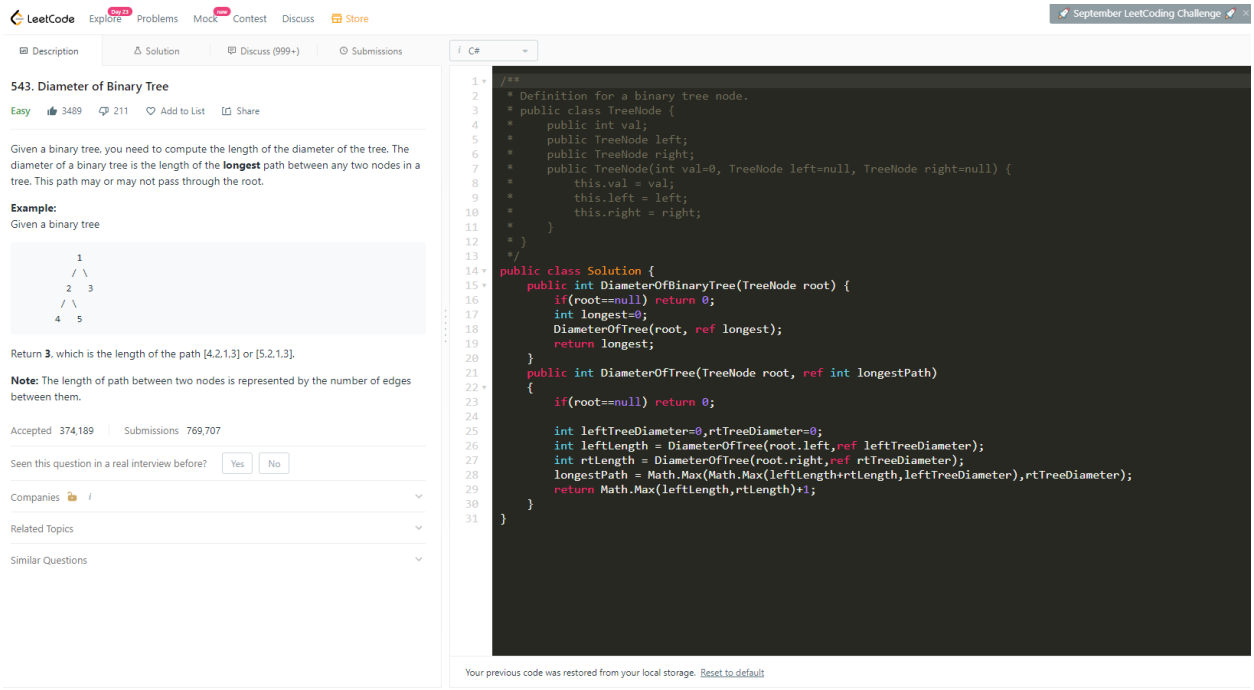
// https://leetcode.com/problems/diameter-of-binary-tree/




```
public class Solution {
    public int DiameterOfBinaryTree(TreeNode root) {
        if(root==null) return 0;
        int longest=0;
        DiameterOfTree(root, ref longest);
        return longest;
    }
    public int DiameterOfTree(TreeNode root, ref int longestPath)
    {
        if(root==null) return 0;

        int leftTreeDiameter=0,rtTreeDiameter=0;
        int leftLength = DiameterOfTree(root.left,ref leftTreeDiameter);
        int rtLength = DiameterOfTree(root.right,ref rtTreeDiameter);
        longestPath = Math.Max(Math.Max(leftLength+rtLength,leftTreeDiameter),rtTreeDiameter);
        return Math.Max(leftLength,rtLength)+1;
    }
}
```

Submission Detail

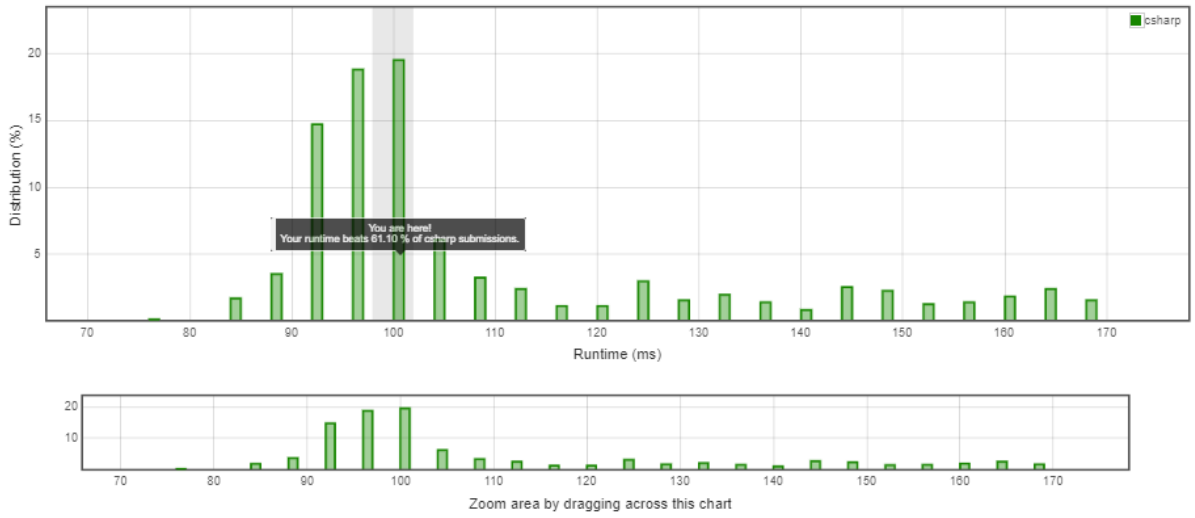
106 / 106 test cases passed.

Runtime: **100 ms**
Memory Usage: **25.6 MB**

Status: Accepted

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution