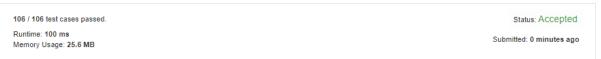
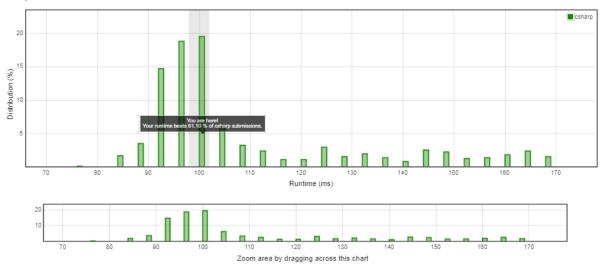
// https://leetcode.com/problems/diameter-of-binary-tree/

```
🖋 September LeetCoding Challenge 🚀 🗵
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543. Diameter of Binary Tree
Easy 🖆 3489 🖓 211 ♡ Add to List 🖆 Share
Given a binary tree, you need to compute the length of the diameter of the tree. The
diameter of a binary tree is the length of the longest path between any two nodes in a tree. This path may or may not pass through the root.
Return 3, which is the length of the path [4,2,1,3] or [5,2,1,3].
 Note: The length of path between two nodes is represented by the number of edges
                                                                             int leftTreeDiameter=0,rtTreeDiameter=0;
int leftLength = DiameterOfTree(root.left,ref leftTreeDiameter);
int rtlength = DiameterOfTree(root.right,ref rtTreeDiameter);
int rtlength = Math.Max(Math.Max(leftLength+rtlength,leftTreeDiameter),rtTreeDiameter);
return Math.Max(leftLength,rtlength);
Accepted 374,189 Submissions 769,707
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                                                                Your previous code was restored from your local storage. Reset to default
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



Accepted Solutions Runtime Distribution



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