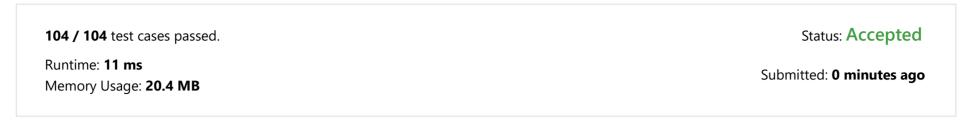
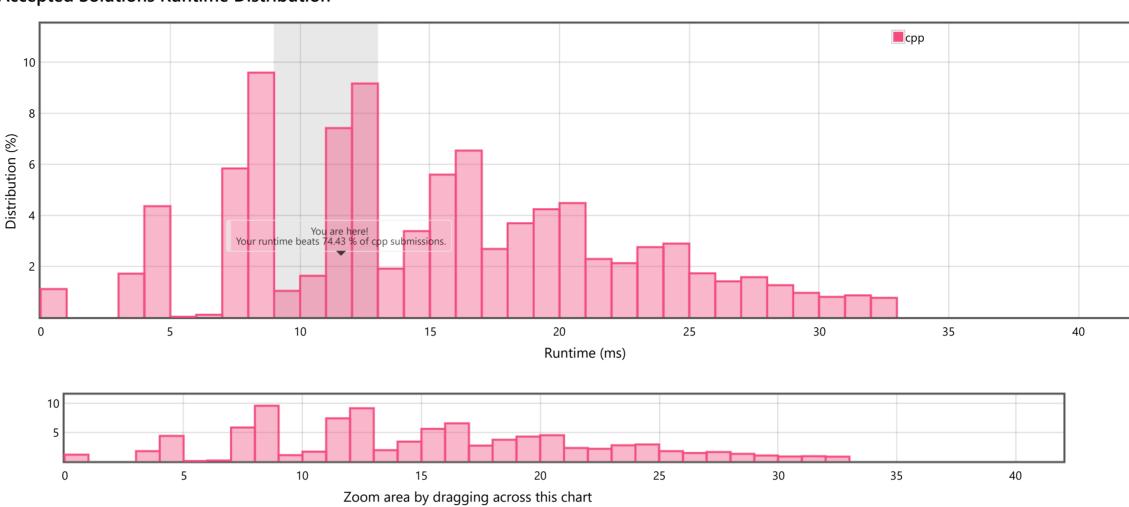
## Diameter of Binary Tree (/problems/diameter-of-binary-tree/)

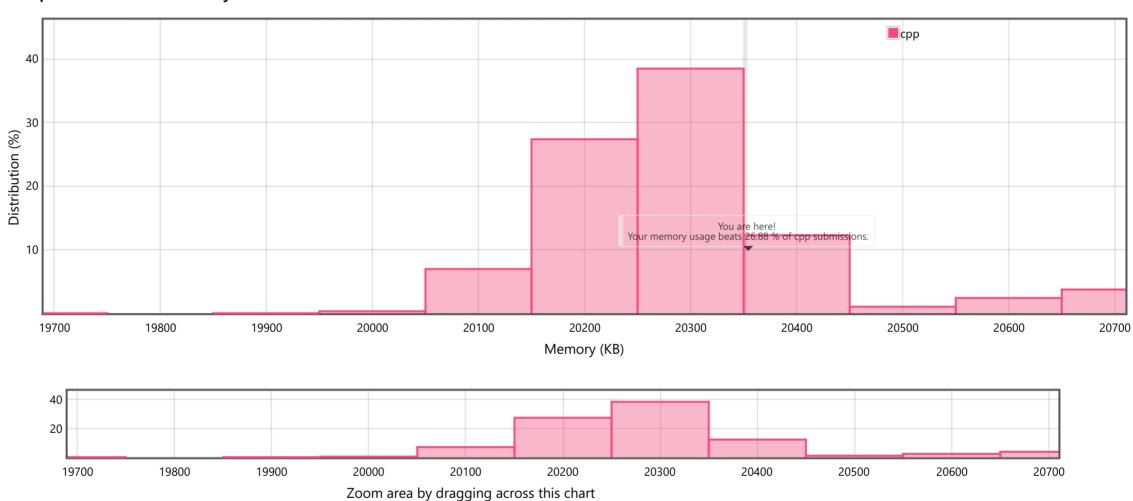
## **Submission Detail**



## **Accepted Solutions Runtime Distribution**



## **Accepted Solutions Memory Distribution**



Invite friends to challenge **Diameter of Binary Tree** 

```
Submitted Code: 0 minutes ago
```

```
Language: cpp
                                                                                                           Edit Code
 1 /**
     * Definition for a binary tree node.
 2
     * struct TreeNode {
 3
 4
           int val;
 5
           TreeNode *left;
           TreeNode *right;
 6
           TreeNode() : val(0), left(nullptr), right(nullptr) {}
 7
           TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}
 8
 9
           TreeNode(int x, TreeNode *left, TreeNode *right) : val(x), left(left), right(right) {}
     * };*/
10
11 class Solution {
12 public:
13
        int ans = 0;
14
        int height(TreeNode* root){
            if(root == NULL)
15
16
                return 0;
17
18
            int l = height(root->left);
            int r = height(root->right);
19
20
21
            ans = max(ans, (1 + r));
22
            return max(l, r) + 1;
23
24
        int diameterOfBinaryTree(TreeNode* root) {
25
            if(root == NULL)
26
                return 0;
27
28
            int l = height(root->left);
29
            int r = height(root->right);
30
31
32
            return max(ans, (1 + r));
33
34 };
```

Back to problem (/problems/diameter-of-binary-tree/)

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