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

Submission Detail

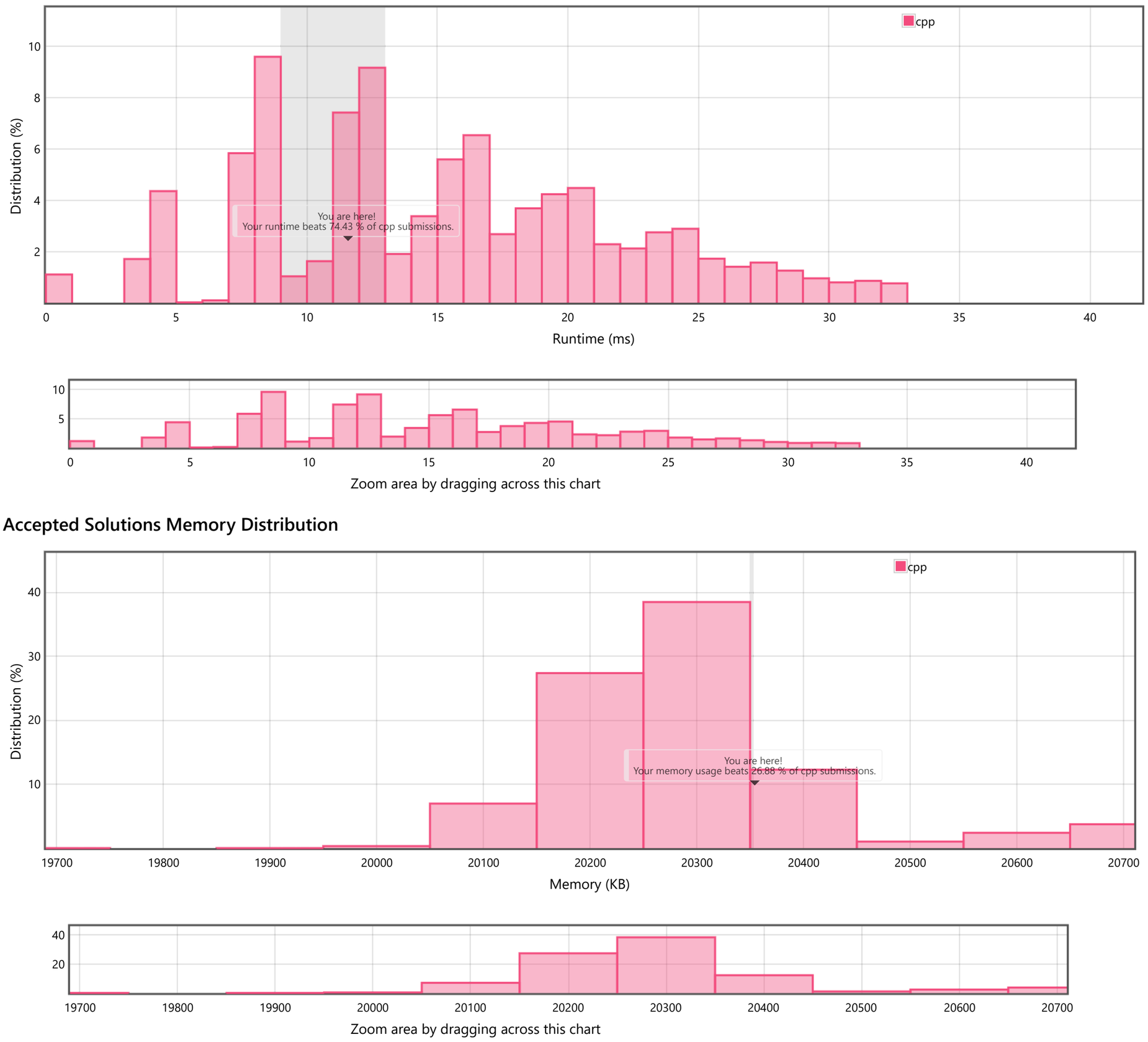
104 / 104 test cases passed.

Runtime: **11 ms**
Memory Usage: **20.4 MB**

Status: Accepted

Submitted: **0 minutes ago**

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

```
/**
 * Definition for a binary tree node.
 * struct TreeNode {
 *     int val;
 *     TreeNode *left;
 *     TreeNode *right;
 *     TreeNode() : val(0), left(nullptr), right(nullptr) {}
 *     TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}
 *     TreeNode(int x, TreeNode *left, TreeNode *right) : val(x), left(left), right(right) {}
 * };*/
class Solution {
public:
    int ans = 0;
    int height(TreeNode* root){
        if(root == NULL)
            return 0;

        int l = height(root->left);
        int r = height(root->right);

        ans = max(ans, (l + r));
        return max(l, r) + 1;
    }
    int diameterOfBinaryTree(TreeNode* root) {
        if(root == NULL)
            return 0;

        int l = height(root->left);
        int r = height(root->right);


        return max(ans, (l + r));
    }
};
```

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