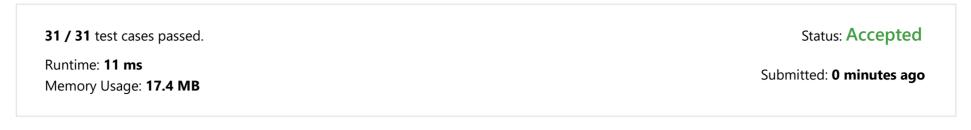
8

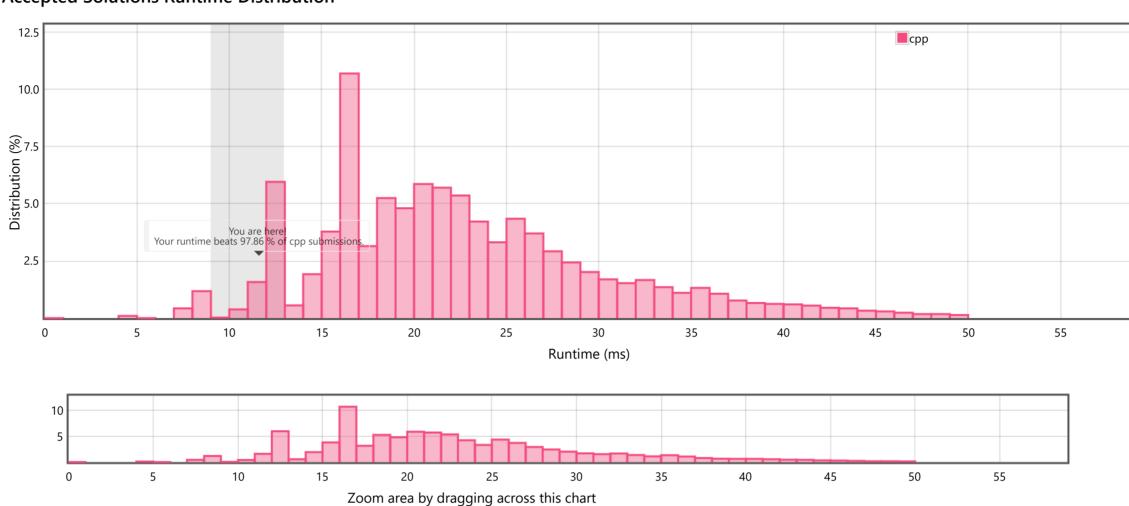
1/2

system/)
Lowest Common Ancestor of a Binary Tree (/problems/lowest-common-ancestor-of-a-binary-tree/)

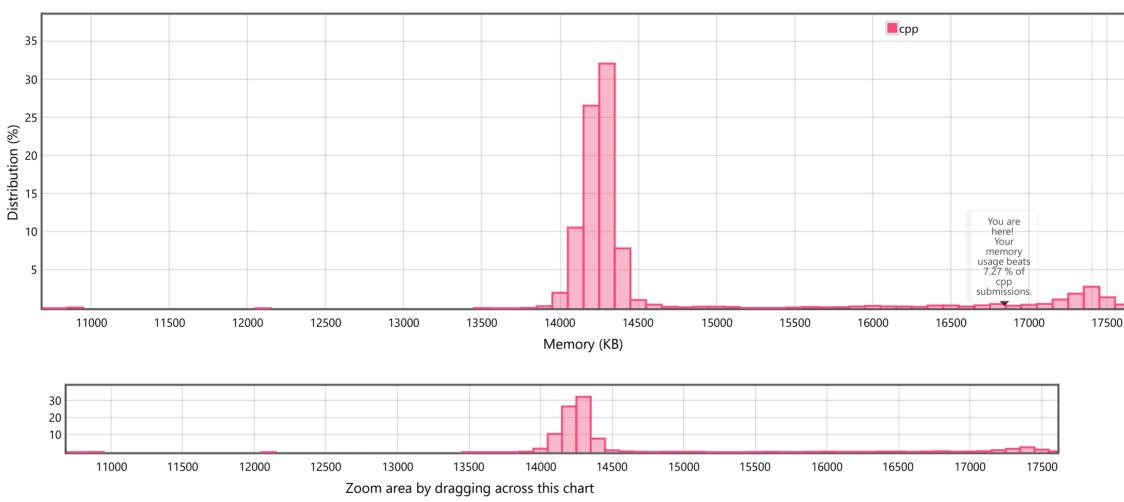
Submission Detail



Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution



Invite friends to challenge Lowest Common Ancestor of a 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(int x) : val(x), left(NULL), right(NULL) {}
   7
       * };
   8
   9
  10 class Solution {
      public:
  11
  12
          bool solve(TreeNode* root, vector<TreeNode*>& path, TreeNode* p){
  13
              if(root == NULL)
  14
                  return false;
  15
               path.push_back(root);
  16
              if(root->val == p->val)
  17
                  return true;
  18
              bool 1 = solve(root->left, path, p);
  19
              bool r = solve(root->right, path, p);
  20
              if(l or r)
  21
                  return true;
  22
  23
              path.pop_back();
  24
              return false;
  25
  26
  27
          TreeNode* lowestCommonAncestor(TreeNode* root, TreeNode* p, TreeNode* q) {
  28
  29
              vector<TreeNode*> pathP, pathQ;
  30
              int l = solve(root, pathP, p);
  31
              int r = solve(root, pathQ, q);
  32
              if(!(l and r)) return (new TreeNode(-1));
  33
              int i = 0;
  34
              for(i = 0; i < min(pathP.size(), pathQ.size()); i++){</pre>
  35
                  if(pathP[i] != pathQ[i])
  36
                      return pathP[i - 1];
  37
              if(i == min(pathP.size(), pathQ.size()))
  38
  39
                  return pathP[i - 1];
```

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40
41 return (new TreeNode(-1));
42 }

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