## 1379. Find a Corresponding Node of a Binary Tree in a Clone of That Tree

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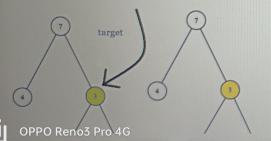
Given two binary trees original and cloned and given a reference to a node

The cloned tree is a copy of the original tree.

Return a reference to the same node in the cloned tree.

Note that you are not allowed to change any of the two trees or the target node and the answer must be a reference to a node in the cloned tree.

### Example 1:



```
1 +
          * Definition for a binary tree node.
          * struct TreeNode {
                    int val:
                    TreeNode *left:
                    TreeNode *right:
                   TreeNode(int x) : val(x), left(NULL), right(NULL) {}
        class Solution {
         public:
               TreeNode* getTargetCopy(TreeNode* original, TreeNode* cloned, TreeNode* target) {
   if(original == NULL) return NULL;
                     in(original == wolt) return cloned;
if(original == target) return cloned;
TreeNode* r = getTargetCopy(original->left, cloned->left, target);
TreeNode* r = getTargetCopy(original->right, cloned->right, target);
return (l=NULL) ? 1 : r;
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```

# 617. Merge Two Binary Trees

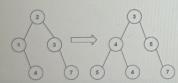
You are given two binary trees root1 and root2.

Imagine that when you put one of them to cover the other, some nodes of the two trees are overlapped while the others are not. You need to merge the two trees into a new binary tree. The merge rule is that if two nodes overlap, then sum node values up as the new value of the merged node. Otherwise, the NOT null node will be used as the node of the new tree.

Note: The merging process must start from the root nodes of both trees.

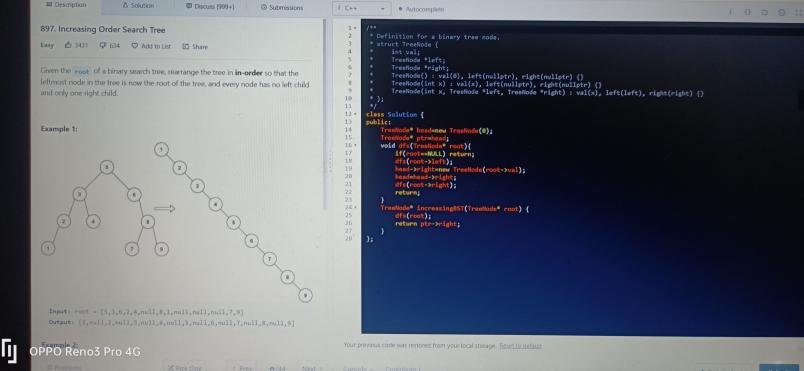
#### Example 1:

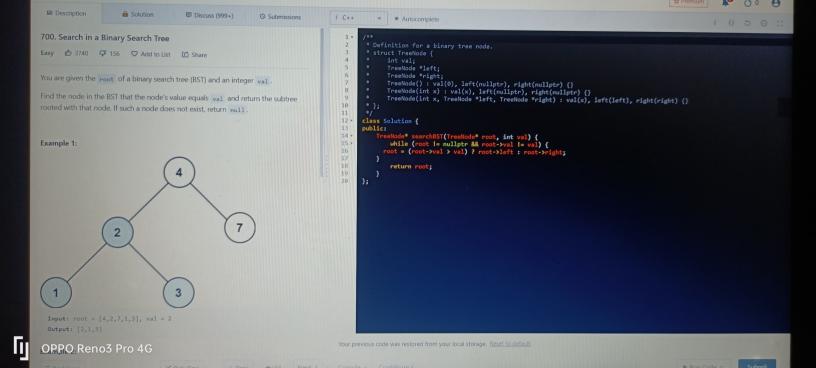


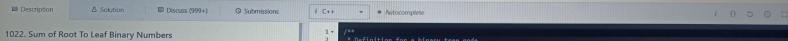


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\* Definition for a binary tree node. \* struct TreeNode { int val: TreeNode \*left: TreeNode \*right: TreeNode(): val(0), left(nullptr), right(nullptr) {} TreeNode(int x) : val(x), left(nullptr), right(nullptr) {} TreeNode(int x, TreeNode \*left, TreeNode \*right): val(x), left(left), right(right) {} 10 class Solution { public: 14 + TreeNode\* mergeTrees(TreeNode\* root1, TreeNode\* root2) { if(root1 && root2){ TreeNode\* root=new TreeNode(root1->val+root2->val); 16 root->left=mergeTrees(root1->left,root2->left);
root->right=mergeTrees(root1->right,root2->right); return root: 20 else return root1?root1:root2; 24







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You are given the root of a binary tree where each node has a value o or 1. Each root-to-leaf path represents a binary number starting with the most significant bit.

• For example, if the path is 0 -> 1 -> 1 -> 0 -> 1, then this could represent 01101 in binary, which is 13.

For all leaves in the tree, consider the numbers represented by the path from the root to that leaf. Return the sum of these numbers.

The test cases are generated so that the answer fits in a 32-bits integer.

# Example 1:



```
* Definition for a binary tree node.
              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 sumRootToLeaf(TreeNode* root, int sum) {
14 +
               if(!root) return 0;
              sum=(sum<<1)+root->val;
16
              if(!root->left && !root->right) return sum;
              return sumRootToLeaf(root->left,sum) + sumRootToLeaf(root->right,sum);
18
          public:
20
          int sumRootToLeaf(TreeNode* root) {
    return sumRootToLeaf(root,0);
24
```

```
10
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18
20
```

```
* Definition for a binary tree mode.
 * 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 maxDepth(TreeNode* root) {
        if(!root) return 0;
       int maxLeft = maxDepth(root->left);
int maxRight = maxDepth(root->right);
        return max(maxLeft, maxRight)+1;
```

Autocomplete

