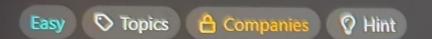


Subtree Tree of Another Tree Subtree, SubRoot true, not De entra rode (should be enactly iterfied 1 find subhoot in main tree (2) Check is Identical subloot main tree soot \$40:57Z Pseudo Crobi bool is Subtree ( root, Subhoot) of if (700+ == NU12 1) SubRoot == NU12) Seturn root = = Subhoot Subtrac (2001- left) if (root - val = = SubRoot - val && is Identical (now, Suproot)) return true

## **572. Subtree of Another Tree**

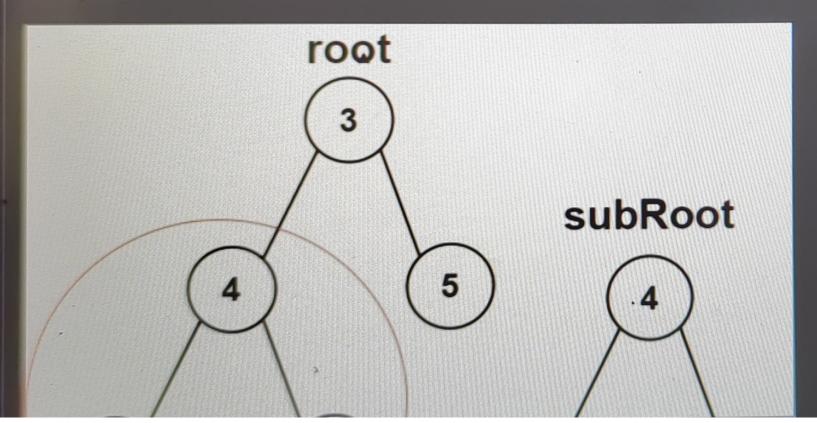




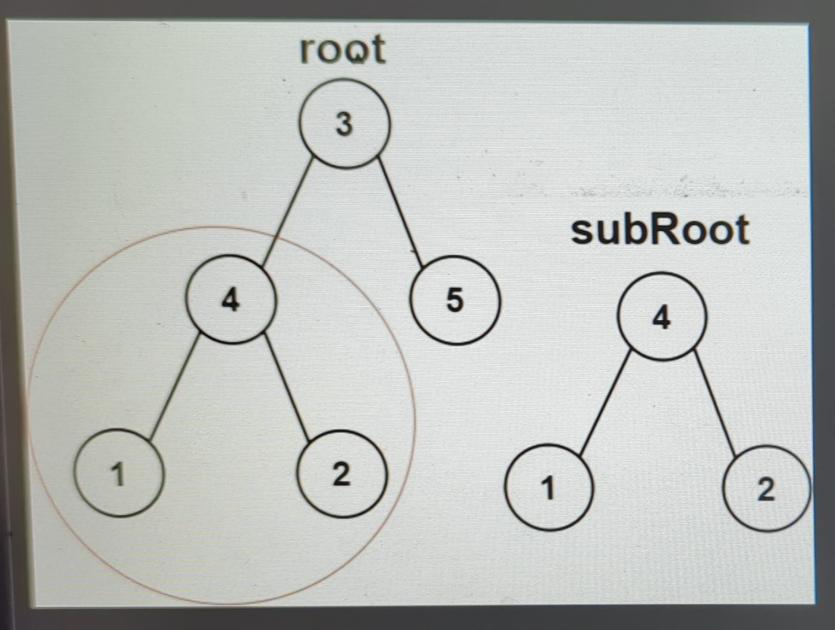
Given the roots of two binary trees root and subRoot, return true if there is a subtree of root with the same structure and node values of subRoot and false otherwise.

A subtree of a binary tree tree is a tree that consists of a node in tree and all of this node's descendants. The tree tree could also be considered as a subtree of itself.

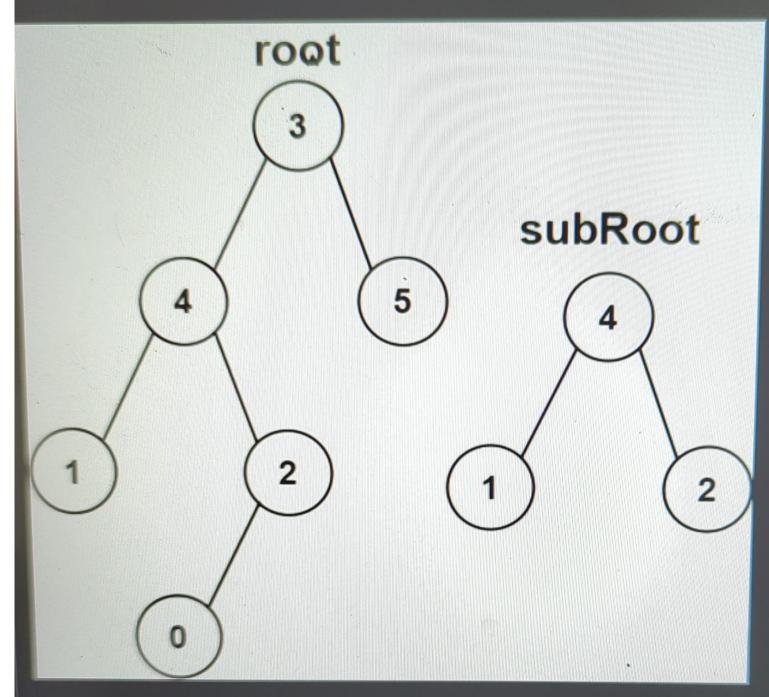
## Example 1:



## Example 1:



Input: root = [3,4,5,1,2], subRoot = [4,1,2]
Output: true



Input: root = [3,4,5,1,2,null,null,null,null,0], subRoot = [4,1,2]Output: false

```
class Solution (
public:
   bool isIdentical(TreeNode* p, TreeNode* q){
       if(p==NULL || q==NULL){
          return p==q;
      return p->val==q->val && isIdentical(p->left,q->left) &&
      isIdentical(p->right,q->right);
  bool isSubtree(TreeNode* root, TreeNode* subRoot) {
      if(root==NULL | subRoot==NULL){
         return root==subRoot;
     if(root->val==subRoot->val && isIdentical(root, subRoot)){
         return true;
     return isSubtree(root->left, subRoot) || isSubtree(root->right, subRoot);
```