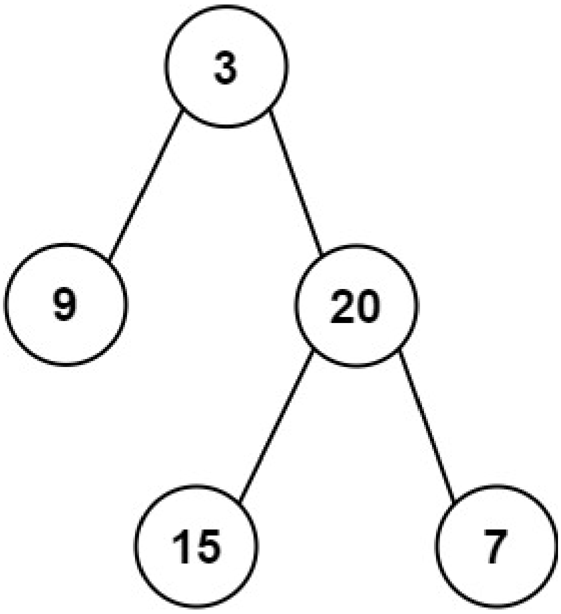
Description Solution Discuss (999+) Submissions

105. Construct Binary Tree from Preorder and Inorder Traversal

Medium 9656 261 Add to List Share

Given two integer arrays `preorder` and `inorder` where `preorder` is the preorder traversal of a binary tree and `inorder` is the inorder traversal of the same tree, construct and return *the binary tree*.

Example 1:



```
Input: preorder = [3,9,20,15,7], inorder = [9,3,15,20,7]
Output: [3,9,20,null,null,15,7]
```

Example 2:

```
Input: preorder = [-1], inorder = [-1]
Output: [-1]
```

Constraints:

- `1 <= preorder.length <= 3000`
- `inorder.length == preorder.length`
- `-3000 <= preorder[i], inorder[i] <= 3000`
- `preorder` and `inorder` consist of **unique** values.
- Each value of `inorder` also appears in `preorder`.

C++

```
left(nullpt
 *     Tree
left(nullpt
 *     Tree
*left, Tree
val(x), le
{}
 * };
 */
class Solut
public:
    TreeNoc
helper(vect
vector<int:
int left, :
        if(
nullptr;

        int
        wh:
preorder[rc

        roc

        Tre
TreeNode(ir
        new
helper(prec
left, pivot
        new
helper(prec
pivot+1, r:

        ret
    }
    TreeNoc
buildTree(v
vector<int:
        int
        ret
inorder, rc
inorder.si:
```

Testcase Run Code Re

Accepted Runti

Your input [3, [9,

Output [3,

Expected [3,