

Postorder traversal from Preorder and Inorder traversal

Rules:

1. Plagiarism is forbidden.
2. Write your program with C++.

Problem Definition:

- ✓ You need to return postorder traversal of a binary tree given preorder and inorder traversal of the tree
- ✓ You need to construct the whole tree first, and then use DFS to get postorder traversal.
- ✓ You need to use "Depth First Search" concept in your code.

I/O Format:

Example 1:

Input:

3 9 20 15 7
9 3 15 20 7

The first line is the **PreOrder** traversal of the tree.

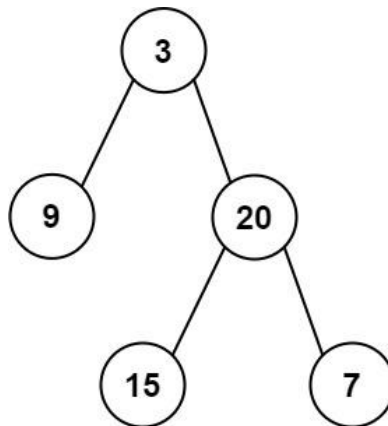
The second line is the **InOrder** traversal of the tree.

Output:

9
15
7
20
3

Explanation:

✧ The corresponding Tree:



PreOrder: 3 9 20 15 7

InOrder: 9 3 15 20 7

PostOrder: 9 15 7 20 3

Constraints:

- ✓ $1 \leq \text{Node_Number} \leq 200$
- ✓ Each node value is unique
- ✓ Each value appears in PreOrder will also appears in InOrder.