

1. You are given a pre-order traversal and an inorder traversal of a binary tree. Draw the binary tree from the two traversal results.

pre-order: A, B, C, D, E, F, G

inorder: C, B, E, D, A, F, G

- The first visiting node of the pre-order traversal is the root. From the in-order traversal, you can find that **C, B, E, D** is in the left subtree and **F, G** is in the right subtree.
- The second visiting node of the pre-order traversal is the root of the left subtree if the left subtree is not empty.
- Otherwise, it will be the root of right subtree. From the in-order traversal, you can find that C is in the left subtree and **E, D** is in the right subtree. etc.

