This is homework 16. It extends homework 15.

In homework 15, you need to build a binary tree from in-order and post-order traversal.

In homework 16, after building the binary tree, you need to find the path from the first node of the in-order traversal back to the root node.

Consider this example, the in-order traversal is 248, 170, 83.

The post-order traversal is also 248, 170, 83.

From homework 15, we know this is the tree: 83 is the root. It has one left child and the number 170. 170 has a left child 248. If we want to print the path from 248 back to the root, the result is 248, 170. 83.

The next example builds a more complex tree.

This is the tree from in-order and post-order. The path from 335 to 141 is 335, 141.