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## A. Password

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**Time Limit:** 1.0 Seconds **Memory Limit:** 65536K

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Bob will get a bag as gift from Alice, but Alice don't wanna Bob get the bag without did anything, so she put the bag into a safe box... Alice will give two hints about password to Bob. One is the preorder traversal(root, left subtree, right subtree) of a binary tree, another is the inorder traversal(left subtree, root, right subtree) of the same tree. The password is the postorder traversal(left subtree, right subtree, root) of the tree.

For example:



The tree only has three nodes A, B and C.

Its preorder traversal is ABC, inorder traversal is BAC, and postorder traversal is BCA.

### Input

There are several test cases in the input file, Each test case contains two line. Preorder traversal and Inorder traversal. (Each line's length won't longer than 26, and only contain upper letter)

### Output

For each test case, output the password Bob need.

### Sample Input

```
ABC
BAC
```

### Sample Output

```
BCA
```

*Source: TJU Team Selection 2013*

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