Problem C: Pre, in and post

Time Limit: 1 Sec Memory Limit: 128 MB Submit: 415 Solved: 208

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Description

You are given the pre-order and in order traversal of the binary tree, please find the post-order of this tree.

Input

The first line will be an integer $T(1 \le T \le 10)$, which is the number of test cases.

For each test data:

The first line contains one integer $N(1 \le N \le 10^3)$ — the number of nodes of the tree

Then follows two lines:

The first line contains N integers ranging from 1 to N, indicating the pre-order traversal of the tree.

The second line contains N integers ranging from 1 to N, indicating the in-order traversal of the tree.

Output

For each case, contains one line with N integer, the post-order traversal of the tree.

Sample Input

1

12435

24153

Sample Output

42531

HINT

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