Task «Another round»
You are given preorder and inorder traversals of some binary tree. Get it postorder bypass.

Input format
The first line of the input contains an integer n – the number of vertices in the tree ($1 \leq n \leq 100'000$).

The second line contains n different non-negative integers – preorder traversal of the tree.

The third line contains n different non-negative integers – inorder traversal of the tree.

It is guaranteed that these traversals are indeed correct preorder and inorder traversals of some binary tree.

Output format
In a single line print n numbers – postorder traversal of the given tree.

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Sample input:
8
2 5 1 8 6 3 4 7
8 1 6 5 2 4 3 7

Sample output:
8 6 1 5 4 7 3 2