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## Rebuilding binary search trees

P36853\_en

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At the exercise **BUSCE** is described a binary search tree with its preorder traversal, which includes a -1 for each leaf. But, in fact, it is not necessary to include the -1's in the preorder of a search tree to be able to rebuild it.

Write a program that reads a sequence of binary search tree described with their preorder traversal with out -1's. For each tree, it must write its postorder traversal.

### Input

Input consists of a sequence of description of binary trees as it is explained at **REREC**, with an exception: The -1 corresponding to the leaves are omitted. Suppose that trees are search trees and that its elements are natural numbers.

### Output

For each tree of the input, your program must print a line with the postorder traversal of the tree. Each element must be preceded by a space.

#### Sample input 1

```
10
180 155 60 80 170 300 240 400 310 340

3
30 20 10
```

#### Sample output 1

```
80 60 170 155 240 340 310 400 300 180
10 20 30
```

### Problem information

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