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The Virtual Learning Environment for Computer Programming

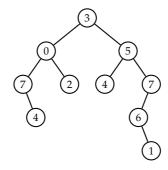
Trees — Recursive traversal

P98436_en

Write a program that reads the description of a natural binary tree and prints its postorder and inorder traversals.

The description of a tree consists of its traversal in preorder, which includes the leaves marked with a -1.

For instance, the tree



would be described as 3 0 7 -1 4 -1 -1 2 -1 -1 5 4 -1 -1 7 6 -1 1 -1 -1 -1

Input

Input consists of the description of a natural binary tree.

Output

Your program must print two lines, with the postorder and inorder traversals of the tree. Follow the format in the samples.

Sample input

Sample output

pos: 4 7 2 0 4 1 6 7 5 3 ino: 7 4 0 2 3 4 5 6 1 7

Problem information

Author : Jordi Petit i Salvador Roura

Translator : Jordi Petit

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