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The Virtual Learning Environment for Computer Programming

Printing a tree

Write a program that reads a binary tree of words, and that prints it following the format of the instance.

Input

Input consists of the description of a tree as is explained at the exercise . You can suppose that the given words have less than ten letters.

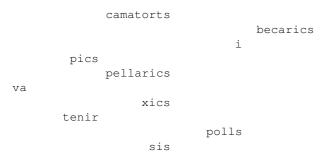
Output

Your program must print the tree following the format of the instance. Notice that each level of the tree is printed using ten characters.

Sample input

```
10
va tenir sis -1 polls -1 -1 xics -1 -1 pics
pellarics -1 -1 camatorts i -1 becarics -1 -1 -1
```

Sample output



Problem information

Author : Salvador Roura Translator : Carlos Molina Generation : 2024-04-30 16:24:55

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