
Printing a tree

P19127_en

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

```

                camatorts
                    becarics
                        i
                            pics
                                pellarics
                                    va
                                        xics
                                            tenir
                                                sis
                                                    polls
```

Problem information

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