
Left child, right sibling (3)

P24438_en

Write a program that reads a general tree of words, and prints its corresponding binary tree following the format of the exercise : "".

Input

Input consists of the description of a tree of words as is explained at the exercise : "" . All the words have less than ten letters.

Output

Your program must print the binary tree corresponding to the general tree following the format of the exercise : "" .

From the general tree, the associated binary tree can be written directly. Therefore, is not necessary to construct it explicitly.

Sample input

```
12
january 3
february 0
march 2
april 1
may 1
june 0
july 0
august 4
september 0
october 0
november 0
december 0
```

Sample output

```
  january
                august
                        november      december
                                october
                                    september
                                        march
                                            april      july
                                                may
                                                    june
                                                        february
```

Problem information

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