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 **ESCAR**.

Input

Input consists of the description of a tree of words as is explained at the exercise **REREG**. 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 **ESCAR**.
From the general tree, the associated binary tree can be written directly. Therefore, is not necessary to construct it explicitly.

Sample input 1

```
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 1

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

Problem information

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Generation: 2026-01-25T10:21:44.529Z