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**Lines in order (2)****P49603\_en**

Write a program that, given a sequence of lines with words, tells which is the last line that has the words in increasing (lexicographic) order.

**Input**

Input consists of a sequence of lines with words. Each line begins with a number  $n$ , followed by  $n$  words made up of only lowercase letters.

**Output**

Print the index of the last line with the words in (not necessary strictly) increasing order. If there is no such line, tell so. Follow the format of the examples.

**Sample input 1**

```
5 i am not in order
2 neither me
4 i yes yes yes
1 idem
```

**Sample output 1**

The last line in increasing order is 4.

**Sample input 2**

```
4 one two three four
5 e d c b a
```

**Sample output 2**

There is no line in increasing order.

**Sample input 3**

0

**Sample output 3**

The last line in increasing order is 1.

**Problem information**

Author: Salvador Roura

Translator: Carlos Molina

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