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## A badly placed word

P78721\_en

Examen parcial d'Informàtica, FME (2014-11-17)

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Write a program that, given an almost sorted sequence of words with exactly one word that appears too soon, prints the sequence totally sorted.

### Input

Input consists of two or more words made up only of lowercase letters. All the words are different. The sequence is alphabetically sorted except for a word that appears too soon. The end of input is marked with the special word "END".

### Output

Print the sequence totally sorted.

### Observation

In this problem, you should not use vectors, lists, or alike.

#### Sample input 1

```
a
b
e
c
d
f
g
END
```

#### Sample output 1

```
a
b
c
d
e
f
g
```

#### Sample input 2

```
hola
bye
END
```

#### Sample output 2

```
bye
hola
```

#### Sample input 3

```
f
aaaaaa
bbbbbb
cccc
ddd
ee
END
```

#### Sample output 3

```
aaaaaa
bbbbbb
cccc
ddd
ee
f
```

### Problem information

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Generation : 2024-05-02 23:41:27

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