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## A badly placed word

P78721\_en

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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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