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## Collection of words

P77859\_en

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Write a program to keep a collection of words. There are two instructions:

- “AFEGEIX”  $w$  adds the word  $w$  to the collection, and prints nothing.
- “SEGUENT” deletes the longest word of the collection, and prints it. In the event of a tie, it deletes the word that was added first.

### Input

Input consists of a sequence of instructions. The given words are made up of only lowercase letters, and can be repeated.

### Output

For every “SEGUENT” instruction, print a line with the required word according to the rules given above. You can assume that there will always be at least one word.

### Observation

“Afegeix” is Catalan for “add”, and “següent” is Catalan for “next”.

#### Sample input 1

```
AFEGEIX hola
AFEGEIX adeu
SEGUENT
AFEGEIX blabla
SEGUENT
SEGUENT
```

#### Sample output 1

```
hola
blabla
adeu
```

#### Sample input 2

```
AFEGEIX a
AFEGEIX bb
AFEGEIX ccc
AFEGEIX dddd
SEGUENT
AFEGEIX eee
SEGUENT
AFEGEIX bb
SEGUENT
AFEGEIX a
SEGUENT
SEGUENT
```

#### Sample output 2

```
dddd
ccc
eee
bb
bb
```

### Problem information

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