

First repeated vowel quantity**X27371_en**

Find the first word in a sequence that has the same quantity of vowels than a previous word.

Input

Input is a sequence of words; each word is a nonempty string consisting only of lowercase letters that comes alone in a line. However, there might be empty lines interspersed with them. The end of the sequence is marked by the word XXX, that should not be considered part of the sequence.

Output

Generally, output consists of two words that have the same quantity of vowels. They must be the two words (for which this condition holds) that we can detect as early as possible. That is, all words appearing before the second one have different quantities of vowels. In case no such pair exist, the output of the program must be the single word "no".

Sample input 1

```
invocation
of
functions
where
several
parameters
are
needed
is
deprecated
XXX
```

Sample output 1

```
functions
several
```

Sample input 2

```
one
two
seventeen
sixteen
supercalifragilisticexpialidocious
dgt
XXX
```

Sample output 2

```
no
```

Problem information

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