
Longest a-word

X12727_en

Write a program that provided a sequence of words prints the longest word in the sequence that starts with a.

Input

The input has one or more cases. Each case starts with a non negative integer n followed by a sequence of n words consisting of lowercase letters.

Output

For each case, the program has to print in a line the longest word starting with a. In case of a tie, it will write the lowest in the alphabetical order —the order defined by the standard inequality comparison on strings—. If there is no word starting with 'a', the program has to write no one.

Sample input

```
6 ab alio spectes alteri quod feceris
4 ad angusta per angusta
0
5 ad mores natura recurrit damnatos
4 faber quisque fortunae suae
```

Sample output

```
alteri
angusta
no one
ad
no one
```

Problem information

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