Mode   P86534_en

Write a program that finds the most frequent word for every given sequence of words.

Input

Input consists of several cases. Every case begins with a number n between 1 and 10^5, followed by n words made up of only lowercase letters. A special case with $n = 0$ marks the end of input.

Output

For every case, print the word that appears more times. If there is a tie, print the largest word in alphabetical order.

Sample input 1

```
6 joan maria maria anna maria joan
2 aaa b
0
```

Sample output 1

```
maria
b
```

Problem information

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