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

Sample output
```
maria
b
```

Problem information
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