


Recount

Problem ID: recount
CPU Time limit: 2 seconds
Memory limit: 1024 MB
Difficulty: 2.0

The recent schoolboard elections were hotly contested: a proposal to swap school start times for elementary and high school students, a controversial new dress code proposal that bans athletic clothes in school, and a proposal to raise real-estate taxes to pay for a new football practice facility, and the list goes on and on. It is now hours after the polls have closed and a winner has yet to emerge!

In their desperation, the election officials turn to you and ask you to write a program to count the vote!



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Source: 2015 Virginia Tech Hi School Programming Contest
License: 

Input

The input consists of a single test case, which is a list of votes cast. Each line in the input contains the name of a candidate for whom a vote was cast. A name may consist of multiple words, separated by spaces. Words contain letters or hyphens, but no other punctuation characters. There will be at least 2 votes on the list. The list of votes ends with a single line containing the characters `***`. This line should not be counted. There can be up to 100 000 valid votes.

Output

If a candidate obtained a simple or absolute majority of all votes cast (that is, more than any other candidate), output the name of this candidate! If no candidate obtained a simple majority, output: `"Runoff!"` (don't forget to include the exclamation mark!)

Sample Input 1

```
Penny Franklin  
Marti Graham  
Connie Froggatt  
Joseph Ivers  
Connie Froggatt  
Penny Franklin  
Connie Froggatt  
Bruce Stanger  
Connie Froggatt  
Barbara Skinner  
Barbara Skinner  
***
```

Sample Output 1

```
Connie Froggatt
```

Sample Input 2

```
Penny Franklin  
Connie Froggatt  
Barbara Skinner  
Connie Froggatt  
Jose Antonio Gomez-Iglesias  
Connie Froggatt  
Bruce Stanger  
Barbara Skinner  
Barbara Skinner  
***
```

Sample Output 2

```
Runoff!
```