First Frequent Over Limit X91546_en

Write a program that reads a limit integer and a sequence of words and finds the first word in the sequence whose frequency count reaches beyond the limit.

Input

First comes a limit integer @n@; follows a sequence of nonempty words, all formed only by lower-case letters. Words are separated by blank spaces or line ends, or both; at least one such separator, but maybe more than one.

Output

If there are words in the sequence that appear more times than the limit @n@, the first one found to reach above the limit has to be identified with a message like in the examples. Otherwise, also as in the examples, the message "No words reach above frequency @n@" is to be printed.

Sample input 1

```
3
erre con erre guitarra erre con erre barril
```

Sample output 1

```
The first word to reach above frequency 3 is "erre".
```

Sample input 2

```
3
por esa puerta de elvira
sale muy gran cabalgada
cuanto del hidalgo moro
cuanta de la yegua baya
cuanta de la lanza en mano
cuanta de la adarga blanca
```

Sample output 2

```
The first word to reach above frequency 3 is "de".
```

Sample input 3

```
100
the p versus np problem is a major unsolved problem in computer science
```

Sample output 3

```
No words reach above frequency 100.
```

Sample input 4

```
1
the p versus np problem is a major unsolved problem in computer science
```

Sample output 4

```
The first word to reach above frequency 1 is "problem".
```

Problem information

Author: José Luis Balcázar

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