First Frequent Over Limit   X50668_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

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