First line with a frequent letter   X51664_en

Write a program that finds the first line in which some lowercase letter appears often enough.

Input

The first line of the input contains a nonnegative integer *n*. Then comes a text of unpredictable length, formed by letters, numbers, spaces, and punctuation symbols, presented in zero or more lines of unpredictable lengths and finished by a line that contains only the single word "END" in uppercase (plus, possibly, arbitrary whitespace).

Output

The output must be the first line of the text in which some lowercase letter appears at least *n* times, followed by another line reporting "In that line, letter ... appears ... times.", with appropriate values in the placeholder ellipses; if several lowercase letters are frequent enough, the first one in alphabetical order is to be reported. In case no line contains such a frequent letter, the output must be the line "No line contains a letter appearing ... times." Pay attention to the finishing period in the output lines.

Sample input 1

```
7
Not marble nor the gilded monuments
Of princes shall outlive this powerful rhyme,
But you shall shine more bright in these contents
Than unswept stone besmeared with sluttish time.
When wasteful war shall statues overturn,
And broils root out the work of masonry,
Nor Mars his sword nor war's quick fire shall burn
The living record of your memory.
END
```

Sample output 1

```
And broils root out the work of masonry,
In that line, letter o appears 7 times.
```

Sample input 2

```
3
YES, THEY SAY...
that the number of the beast is 666.
    END
```

Sample output 2

```
that the number of the beast is 666.
In that line, letter e appears 4 times.
```

Sample input 3

```
7
When, in disgrace with fortune and men's eyes,
I all alone beweep my outcast state,
And trouble deaf heaven with my bootless cries,
END
```

Sample output 3

```
No line contains a letter appearing 7 times.
```

Problem information

Author : José Luis Balcázar
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