Last Repeated Word

Find the index (1 based) of the last in order word in a sequence of words, that can be found at least three times in that sequence.

Input Format

On the first row you are given an integer N representing the number of words in the current test. On the following N rows you are given one word per row.

Constraints

1 <= 5000000

Output Format

Print the index (1 based) of the last word (the word with the highest index in the sequence) from the sequence that can be found at least three times.

Sample Input 0

```
10
vxwf
vxwf
abd
wojff
xnwtspc
wojff
wojff
abd
spzjsz
spzjsz
```

Sample Output 0

```
7
```