

Problem D. Maximum Word Frequency

Time limit 1000 ms

Mem limit 131072 kB

Term frequency–Inverse document frequency (tf-idf) is a numerical statistic which reflects the importance of words in a document collection. It is often used in information retrieval system. The number of times a word appears in the document (word frequency) is one of the major factors to acquire tf-idf.

You are asked to write a program to find the most frequent word in a document.

Input

The first line contains an integer n ($1 \leq n \leq 1000$) which determines the number of words. The following n lines include the list of words, one word per line. A word contains only lower-case letters and it can contain up to 20 characters.

Output

Print the word that has the highest frequency and its frequency, separated by a single space. If you get two or more results, choose one that comes later in the lexicographical order.

Example

Input	Output
10 mountain lake lake zebra tree lake zebra zebra animal lakes	zebra 3