

Problem 1. Class

In the beginning of every school year in the class in which Ivancho is studying, a class president has to be elected. So the class teacher decided to do an anonymous voting in which each student has to write on a piece of paper the name of the classmate for whom he wants to vote.

However, Ivancho is very sly and knows that it would be in his favor if the selected person is close to him. So he snuck into teachers' room and found the pieces of paper with the votes. Unfortunately his friend had the least votes. So Ivancho decided to change some of the votes, so that his friend would win. However the names are too many and he has not much time. You as Ivancho's friend wouldn't refuse to help him by creating a program **class**, which calculates how many votes does the student with the most votes have and how many does Ivancho's friend have.

Input: The first line of the input file **class.in** contains **N** - the number of the students who have voted. The following **N** rows contains the names written on the pieces of paper.

Output: The output file **class.out** must contain two numbers –the number of the votes that has the student with the most votes and the number of the votes that has the friend of Ivancho.

Constraints:

$$10 \leq N \leq 2000$$

TIME LIMIT – 2 sec

The names contain only Latin letters and not more than 10 symbols.

Example:

class.in	class.out
12 Petar Nadezda Nadezda Stoyan Nadezda Stoyan Nadezda Zdravko Tsvetelina Tsvetelina	4 1

Zdravko Stoyan	
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