

Practice Mode

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Problem A. Country Leader

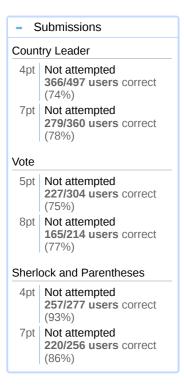
Kickstart Practice Round 2017

A. Country Leader

B. Vote

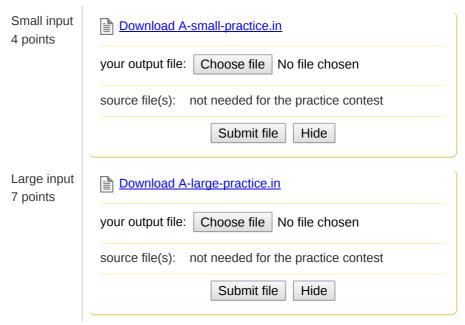
C. Sherlock and Parentheses

Questions asked 1





This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the <u>Quick-Start Guide</u> to get started.



Problem

The Constitution of a certain country states that the leader is the person with the name containing the greatest number of different alphabet letters. (The country uses the uppercase English alphabet from A through Z.) For example, the name GOOGLE has four different alphabet letters: E, G, L, and O. The name APAC CODE JAM has eight different letters. If the country only consists of these 2 persons, APAC CODE JAM would be the leader.

If there is a tie, the person whose name comes earliest in alphabetical order is the leader.

Given a list of names of the citizens of the country, can you determine who the leader is?

Input

The first line of the input gives the number of test cases, \mathbf{T} . \mathbf{T} test cases follow. Each test case starts with a line with an interger \mathbf{N} , the number of people in the country. Then \mathbf{N} lines follow. The i-th line represents the name of the i-th person. Each name contains at most 20 characters and contains at least one alphabet letter.

Output

For each test case, output one line containing Case #x: y, where x is the test case number (starting from 1) and y is the name of the leader.

Limits

 $1 \le T \le 100.$ $1 \le N \le 100.$

Small dataset

Each name consists of at most 20 characters and only consists of the uppercase English letters A through Z.

Large dataset

Each name consists of at most 20 characters and only consists of the uppercase English letters A through Z and ' '(space).
All names start and end with alphabet letters.

Sample

Input	Output
2 3 ADAM BOB JOHNSON 2 A AB C DEF	Case #1: JOHNSON Case #2: A AB C

In sample case #1, J0HNS0N contains 5 different alphabet letters('H', 'J', 'N', 'O', 'S'), so he is the leader.

Sample case #2 would only appear in Large data set. The name DEF contains 3 different alphabet letters, the name A AB C also contains 3 different alphabet letters. A AB C comes alphabetically earlier so he is the leader.

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