apac test
powered by Google Code Jam

Round A APAC Test 2017

Questions asked 1

— Submissions

Country Leader

4pt	Not attempted **2262/3789 users** correct (60%)
7pt	Not attempted **1722/2218 users** correct (78%)

Rain

9pt	Not attempted **558/1288 users** correct (43%)
15pt	Not attempted **502/552 users** correct (91%)

Jane's Flower Shop

6pt	Not attempted **1003/1408 users** correct (71%)
19pt	Not attempted **319/735 users** correct (43%)

Clash Royale

13pt	Not attempted **200/410 users** correct (49%)
27pt	Not attempted **28/101 users** correct (28%)

— Top Scores

jcvb	100
NAFIS	100
ZhouYuChen	100
wwwwodddd	100
chffy	100
Seter	100
19891101	100
Constroy	100
Ronnoc	100
Jason911	100

Problem A. Country Leader

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 **Quick-Start Guide** to get started.

Small input 4 points	Solve A-small
Large input 7 points	Solve A-large

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, **T**. **T** test cases follow. Each test case starts with a line with an interger **N**, the number of people in the country. Then **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** ≤ 100.
$1 \le$ **N** ≤ 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            Case #1: JOHNSON
3            Case #2: A AB C
ADAM
BOB
JOHNSON
2
A AB C
DEF
```

In sample case #1, JOHNSON 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.