## Weekly Puzzle #1

Our coding comp. team has decided that the leader should be the person with the name containing the greatest number of different alphabet letters (using the uppercase English alphabet from A through Z.) For example, the name ARTUR has four different alphabet letters: A, R, T, and U. The name PATRICK has seven different letters. If the team only consisted of these 2 people, PATRICK would be the group leader.

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

Can you determine who the leader should be with a given list of names of the people in the team?

# 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 integer **N**, the number of people in the team. Then **N** lines follow. The i-th line represents the name of the i-th person (i.e the first line after the line denoting the number of people is 1<sup>st</sup>). 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

 $1 \le \mathbf{T} \le 100.$  $1 \le \mathbf{N} \le 100.$ 

Test set 1 – Small data set

Each name consists of at most 20 characters and only consists of the uppercase English letters  ${\tt A}$  through  ${\tt Z}$ .

Test set 2 – Large data set

Each name consists of at most 20 characters and only consists of the uppercase English letters  ${\tt A}$  through  ${\tt Z}$  and ' '(space).

All names start and end with alphabet letters.

### Sample

Input		Output
2		Casa 1. ACDANAT
2	//case 1	Case 1: AGRAWAL Case 2: GORDON
ADAM FELIX		
AGRAWAL		
3 GORDON	//case 2	
ADAM		
PUM BA		

In sample case #1, AGRAWAL contains 5 different alphabet letters('A', 'G', 'R', 'W', 'L'), tied with FELIX but his name comes earliest in alphabetical order, so he is the leader.

Sample case #2 would only appear in Large data set. The name PUM BA contains 5 different alphabet letters, the name GORDON also contains 5 different alphabet letters. GORDON has more different alphabet letters so he is the leader.

Test cases are on the next page.

Test set	Input	Output
Test set 1	2	Case 1: Fletcher
	12	Case 2: Archie
	Maxwell	
	Fletcher	
	Harvey	
	Gabriel	
	Austin	
	George	
	Hamish	
	Kai	
	Jordan	
	Archer	
	Theodore	
	Patrick	
	6	
	Edward	
	Muhammad	
	Luca	
	Carter	
	Nate	
	Archie	
Test set 2	5	Case 1: Andrew
	8	Case 2: Christopher
	Alex Angus	Case 3: Ashton
	Hunter	Case 4: Charles
	Jett	Case 5: Brandon
	Oscar	
	Patrick	
	Andrew	
	Sebastian	
	9	
	Toby Christian	
	Corey	
	Elijah	
	Christopher	
	Dominic	
	Declan	
	Adam	
	Mason	
	12 Callum	
	Finn	
	Henry	
	Aidan	
	Aiden	
	Jai	
	Ashton	

Flynn	
Zac	
Joel	
Levi	
Zane	
13	
Brock	
Lincoln	
Brodie	
Kyle	
Beau	
Darcy	
Hamish	
David	
Tom	
Charles	
John	
Sean	
Taj	
3	
Tyson	
Brandon	
Tristan	