Time Remaining: 1min 06sec Rank: 7302 Score: 20 a398445075@gmail.com | Contest scoreboard | Sign out

Round 1A 2016

A. The Last Word

B. Rank and File

C. BFFs

Ask a question

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Submissions

The Last Word

9pt Correct

10114/10317 users correct (98%)

11pt Submitted

10048 users attempted

Rank and File

14pt Not attempted 4512/5985 users correct (75%)

21pt | Not attempted

4429 users attempted

BFFs

16pt Not attempted 1769/3284 users correct (54%) 29pt Not attempted

1432 users attempted

 Top Scores 	
nika	100
sourspinach	100
Swistakk	100
semiexp.	100
ACMonster	100
mnbvmar	100
sevenkplus	100
Merkurev	100
waterfalls	100
xyz111	100

Problem A. The Last Word

Confused? Read the quick-start guide.

Small input
9 points

You have solved this input set.

You have already tried this input set. (Judged at the end of the contest.)

Problem

On the game show *The Last Word*, the host begins a round by showing the contestant a string **S** of uppercase English letters. The contestant has a whiteboard which is initially blank. The host will then present the contestant with the letters of **S**, one by one, in the order in which they appear in **S**. When the host presents the first letter, the contestant writes it on the whiteboard; this counts as the first *word* in the game (even though it is only one letter long). After that, each time the host presents a letter, the contestant must write it at the beginning or the end of the word on the whiteboard before the host moves on to the next letter (or to the end of the game, if there are no more letters).

For example, for S = CAB, after writing the word C on the whiteboard, the contestant could make one of the following four sets of choices:

- put the A before C to form AC, then put the B before AC to form BAC
- put the A before C to form AC, then put the B after AC to form ACB
- put the A after C to form CA, then put the B before CA to form BCA
- put the A after C to form CA, then put the B after CA to form CAB

The word is called the *last word* when the contestant finishes writing all of the letters from $\bf S$, under the given rules. The contestant wins the game if their last word is the last of an alphabetically sorted list of all of the possible last words that could have been produced. For the example above, the winning last word is CAB (which happens to be the same as the original word). For a game with $\bf S$ = JAM, the winning last word is MJA.

You are the next contestant on this show, and the host has just showed you the string **S**. What's the winning last word that you should produce?

Input

The first line of the input gives the number of test cases, **T**. **T** test cases follow. Each consists of one line with a string **S**.

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 winning last word, as described in the statement.

Limits

 $1 \le T \le 100$.

Small dataset

 $1 \le \text{length of } S \le 15.$

Large dataset

 $1 \le \text{length of } S \le 1000.$

Sample

Input	Output	
7 CAB JAM CODE ABAAB CABCBBABC ABCABCABC ZXCASDQWE	Case #1: CAB Case #2: MJA Case #3: OCDE Case #4: BBAAA Case #5: CCCABBBAB Case #6: CCCBAABAB Case #7: ZXCASDQWE	

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