code jam
printf("hello, world!\n");

Practice Mode   Contest scoreboard | Sign in

Problem A. Moist

EuroPython 2013

A. Moist

B. Captain Hammer

C. Bad Horse

D. Professor Normal

Questions asked

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 1 4 points	Solve A-small-1
Small input 2 6 points	Solve A-small-2

Submissions

Moist

4pt	Not attempted **31/48 users** correct (65%)
6pt	Not attempted **31/31 users** correct (100%)

Captain Hammer

22pt	Not attempted **13/18 users** correct (72%)

Bad Horse

12pt	Not attempted **15/20 users** correct (75%)
21pt	Not attempted **13/15 users** correct (87%)

Professor Normal

12pt	Not attempted **2/5 users** correct (40%)
23pt	Not attempted **1/2 users** correct (50%)

Top Scores

6502	68
mgedmin	65
florentxicluna	65
koniiiik	65
kurazu	65

Problem

Moist has a hobby -- collecting figure skating trading cards. His card collection has been growing, and it is now too large to keep in one disorganized pile. Moist needs to sort the cards in alphabetical order, so that he can find the cards that he wants on short notice whenever it is necessary.

The problem is -- Moist can't actually pick up the cards because they keep sliding out his hands, and the sweat causes permanent damage. Some of the cards are rather expensive, mind you. To facilitate the sorting, Moist has convinced Dr. Horrible to build him a sorting robot. However, in his rather horrible style, Dr. Horrible has decided to make the sorting robot charge Moist a fee of $1 whenever it has to move a trading card during the sorting process.

Moist has figured out that the robot's sorting mechanism is very primitive. It scans the deck of cards from top to bottom. Whenever it finds a card that is lexicographically smaller than the previous card, it moves that card to its correct place in the stack above. This operation costs $1, and the robot resumes scanning down towards the bottom of the deck, moving cards one by one until the entire deck is sorted in lexicographical order from top to bottom.

As wet luck would have it, Moist is almost broke, but keeping his trading cards in order is the only remaining joy in his miserable life. He needs to know how much it would cost him to use the robot to sort his deck of cards.

Input

The first line of the input gives the number of test cases, **T**.

pts	65
fox91	65
harutune	65
mgax	44
spyyy	43

T test cases follow. Each one starts with a line containing a single integer, **N**. The next **N** lines each contain the name of a figure skater, in order from the top of the deck to the bottom.

Output

For each test case, output one line containing "Case #x: y", where x is the case number (starting from 1) and y is the number of dollars it would cost Moist to use the robot to sort his deck of trading cards.

Limits

$1 \le T \le 100$.
Each name will consist of only letters and the space character.
Each name will contain at most 100 characters.
No name with start or end with a space.
No name will appear more than once in the same test case.
Lexicographically, the space character comes first, then come the upper case letters, then the lower case letters.

Small dataset

$1 \le N \le 10$.

Large dataset

$1 \le N \le 100$.

Sample

Input	Output
2	Case #1: 1
2	Case #2: 0
Oksana Baiul	
Michelle Kwan	
3	
Elvis Stojko	
Evgeni Plushenko	
Kristi Yamaguchi	