apac test
powered by Google Code Jam

Time Remaining: 20min 24sec   Rank: **440**   Score: 0   **yanweiran123@gmail.com** | **Contest scoreboard** | **Sign out**

Practice Round APAC test

A. Bad Horse

B. Captain Hammer

C. Moist

Ask a question

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Submissions

Bad Horse

| 12pt | Not attempted **264/840 users** correct (31%) |
| 21pt | Not attempted **227/260 users** correct (87%) |

Captain Hammer

| 22pt | Not attempted **243/472 users** correct (51%) |

Moist

| 4pt | 6 incorrect attempts **303/519 users** correct (58%) |
| 6pt | Not attempted **293/300 users** correct (98%) |

Top Scores

Piggietest	65
ivanzjj	65
lsmmd	65
chx123456	65
raypeng	65
fhector	65
mkrjn99	65
thermal	65
milkbro	65
dtyfc	65

Problem C. **Moist**

Confused? Read the quick-start guide.

| Small input 1 4 points | Solve C-small-1 You may try multiple times, with penalties for wrong submissions. |
| Small input 2 6 points | You must solve small input 1 first. You may try multiple times, with penalties for wrong submissions. |

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**. **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 ≤ **T** ≤ 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 ≤ **N** ≤ 10.

Large dataset

$1 \leq N \leq 100$.

Sample

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