

Reverse

Jojo is given a task by his teacher. The task is to reverse the strings that the teacher gave him. Not only that, the teacher also asked him to change every uppercase letter to lowercase letter, and every lowercase letter to uppercase letter. Since he is too lazy, help him by making a program to to complete his task!

Format Input

The first line is an integer T representing the number of test cases. For each test case there will be 1 line consisting of a string S that the teacher gave him.

Format Output

For each test case output "Case #X: Y". X is the test case number and Y is the result of the string after being changed.

Constraints

- $1 \le T \le 100$
- $1 \le |S| \le 1000$
- S only consist of uppercase and lowercase letter.

Sample Input 1 (standard input)

2 ath smartBOY

Sample Output 1 (standard output)

Case #1: HTA

Case #2: yobTRAMS

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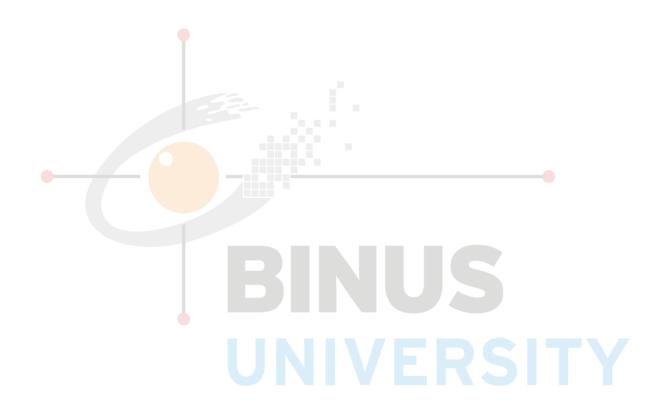


Sample Input 2 (standard input)

2 TOSHberT hmmm

Sample Output 2 (standard output)

Case #1: tREBhsot Case #2: MMMH



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Reverse

Jojo diberi tugas oleh gurunya. Tugasnya adalah untuk membalik suatu kata yang diberi oleh gurunya. Tidak hanya itu, gurunya juga menyuruhnya untuk mengubah huruf kapital menjadi huruf kecil, dan huruf kecil menjadi huruf kapital. Karena dia terlalu malas, bantu dia dengan cara membuat program untuk menyelesaikan tugasnya!

Format Input

Baris pertama terdiri dari 1 bilangan bulat T yang menyatakan banyak kasus uji. Setiap kasus uji terdiri dari 1 baris yang terdiri dari kata S yang diberikan gurunya.

Format Output

Untuk setiap kasus uji outputkan "Case #X: Y". X adalah nomor kasus uji, dan T adalah hasil kata setelah diubah.

Constraints

- $1 \le T \le 100$
- $1 \le |S| \le 1000$
- \bullet Shanya terdiri dari huruf kapital dan huruf kecil.

Sample Input 1 (standard input)

2 ath smartBOY

Sample Output 1 (standard output)

Case #1: HTA

Case #2: yobTRAMS

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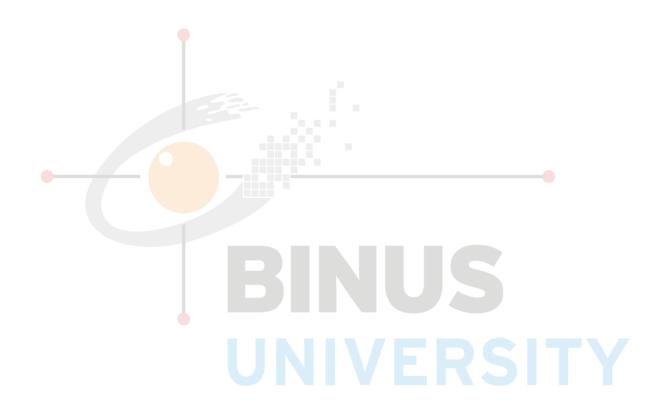


Sample Input 2 (standard input)

2 TOSHberT hmmm

Sample Output 2 (standard output)

Case #1: tREBhsot Case #2: MMMH



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