Hello World!
Problem ID: helloworld

This is probably the first problem you will solve and it should help you set up and test your system. Solve this problem first to make sure everything is in place.

We would like to introduce you to Lea. You will meet her in many of the problems you will solve. After reading all of them you will know her quite well.

Lea is a very friendly person who likes to say hello to everybody, but she doesn't want to say the same thing to every person she meets. Therefore, she never knows what to say. For greeting Bob it is appropriate to say "Hello Bob!", whereas for greeting Peter it is better to say "Hello Peter!". Help her and tell her which sentence to use.

Input

The first line of the input contains an integer t. t test cases follow.

Each test case consists of a single line containing a name s.

Output

For each test case, print a line containing "Case #i: Hello s!" where i is its number, starting at 1. Each line of the output should end with a line break.

Constraints

- $1 \le t \le 20$

- The names s consist of 1 to 100 lower or upper case letters.

Sample Input 1	Sample Output 1
2 Bob Peter	Case #1: Hello Bob! Case #2: Hello Peter!