

Addition

Jojo is making a program to calculate two numbers, but sometimes the numbers are so big that the data type like integer or even long integer can't contain. He gets an idea to save the number to an array, but there is a problem because he doesn't know how to add the two numbers anymore. Troubled with his code, he decides to ask Lili. She tells him to remember how he adds two numbers when in the elementary school. Then he remembers to add the two numbers, he has to add the last digit from each number, then if the answer is greater than 10, then he will write only the last digit, and let the rest to be carried to the next number, then he will do it over until all digit is done. He remembers how to add them, but he still can't make the program, help him to make the program.

Format Input

The first line of the input will contain an integer T, the number of test cases.

Each test case will contain three numbers, N, A, and B. N is the number of digits from A and B. A and B is the numbers that he wants to add.

Format Output

For each test case, print "Case #X:" (X starts with 1).

Then on the same line, print the addition of the two numbers.

Constraints

$1 \leq T \leq 10$

A and B can contain up to 100 digits.

Sample Input	Sample Output
3 2 12 34 5 12345 32483 10 2738923283 8329791875	Case #1: 46 Case #2: 44828 Case #3: 11068715158

Explanation:

Case 2:

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12345
32483
----- +
44828
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