## Problem C. Division by 3

**Time limit** 1000 ms **Mem limit** 65536 kB

There is sequence 1, 12, 123, 1234, ..., 12345678910, .... Now you are given two integers A and B, you have to find the number of integers from  $A^{th}$  number to  $B^{th}$  (inclusive) number, which are divisible by 3.

For example, let A = 3. B = 5. So, the numbers in the sequence are, 123, 1234, 12345. And 123, 12345 are divisible by 3. So, the result is 2.

## Input

Input starts with an integer **T** (≤ **10000**), denoting the number of test cases.

Each case contains two integers A and B ( $1 \le A \le B < 2^{31}$ ) in a line.

## Output

For each case, print the case number and the total numbers in the sequence between  $\mathbf{A}^{th}$  and  $\mathbf{B}^{th}$  which are divisible by 3.

## Sample

Input	Output
2	Case 1: 2 Case 2: 67
3 5	Case 2: 67
10 110	