## **1136 - Division by 3**

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  $\mathbf{A}^{th}$  number to  $\mathbf{B}^{th}$  (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 ( $\leq 10000$ ), denoting the number of test cases.

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

## **Output**

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

Sample Input	<b>Output for Sample Input</b>
2	Case 1: 2
3 5	Case 2: 67
10 110	