

## 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 **A**<sup>th</sup> number to **B**<sup>th</sup> (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** ( $1 \leq A \leq B < 2^{31}$ ) in a line.

### Output

For each case, print the case number and the total numbers in the sequence between **A**<sup>th</sup> and **B**<sup>th</sup> which are divisible by 3.

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