## 1068 - Investigation

An integer is divisible by 3 if the sum of its digits is also divisible by 3. For example, 3702 is divisible by 3 and 12 (3+7+0+2) is also divisible by 3. This property also holds for the integer 9.

In this problem, we will investigate this property for other integers.

## Input

Input starts with an integer  $T \leq 200$ , denoting the number of test cases.

Each case contains three positive integers A, B and K ( $1 \le A \le B < 2^{31}$  and 0 < K < 10000).

## **Output**

For each case, output the case number and the number of integers in the range [A, B] which are divisible by K and the sum of its digits is also divisible by K.

Sample Input	Output for Sample Input
3	Case 1: 20
1 20 1	Case 2: 5
1 20 2	Case 3: 64
1 1000 4	