

## 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** ( $1 \leq A \leq B < 2^{31}$  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	