1214 – Large Division

Given two integers, **a** and **b**, you should check whether **a** is divisible by **b** or not. We know that an integer **a** is divisible by an integer **b** if and only if there exists an integer **c** such that **a = b * c**.

Input

Input starts with an integer **T (≤ 525)**, denoting the number of test cases.

Each case starts with a line containing two integers **a ($-10^{200} \leq a \leq 10^{200}$)** and **b (|b| > 0, b fits into a 32 bit signed integer)**. Numbers will not contain leading zeroes.

Output

For each case, print the case number first. Then print **'divisible'** if **a** is divisible by **b**. Otherwise print **'not divisible'**.

Sample Input	Output for Sample Input
6 101 101 0 67 -101 101 767812366832763767488763 4 101 11010000000000000000 256 -20220220220200020220220 2 -101	Case 1: divisible Case 2: divisible Case 3: divisible Case 4: not divisible Case 5: divisible Case 6: divisible