Problem P. Large Division

Time limit 1000 ms
Mem limit 65536 kB

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 ($-10^{200} \le a \le 10^{200}$)** and **b (|b| > 0, b fits into a 32 bit signed integer)**. Numbers will not contain any 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
6 101 101 0 67 -101 101 767812366832763767488763 4 101 11010000000000000000 256 -202202202202000202202202 -101	Case 1: divisible Case 2: divisible Case 3: divisible Case 4: not divisible Case 5: divisible Case 6: divisible