

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 | Case 1: divisible |
| 101 101 | Case 2: divisible |
| 0 67 | Case 3: divisible |
| -101 101 | Case 4: not divisible |
| 7678123668327637674887634 101 | Case 5: divisible |
| 11010000000000000000 256 | Case 6: divisible |
| -202202202202000202202202 -101 | |