## **Mixed Fractions**

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

You are part of a team developing software to help students learn basic mathematics. You are to write one part of that software, which is to display possibly improper fractions as mixed fractions. A proper fraction is one where the numerator is less than the denominator; a mixed fraction is a whole number followed by a proper fraction. For example the improper fraction  $\frac{27}{12}$  is equivalent to the mixed fraction  $2\frac{3}{12}$ . You should not reduce the fraction (i.e. don't change  $\frac{3}{12}$  to  $\frac{1}{4}$ ).

## Input

The first line of the test case consists of a single integer T ( $1 \le T \le 10^5$ ), the number of test cases. T lines follow, each consisting of two integers p, q ( $1 \le p, q \le 10^9$ ), the numerator and denominator respectively.

## Output

For each test case print a line consisting of 3 integers, x, y, z, such that the corresponding improper fraction  $\frac{p}{q}$  can be written as  $x\frac{y}{z}$ .

## Example

standard input	standard output
3	2 3 12
27 12	25 0 98400
2460000 98400	0 3 4000
3 4000	