D. Reduced Fraction

Time Limit: 3 seconds

Problem description

You are required to reduce a fraction.

A **reduced fraction** (or **fraction in lowest terms**, **simplest form** or **irreducible fraction**) is a fraction in which the numerator and denominator are integers that have no other common divisors than 1 (and −1, when negative numbers are considered). In addition, a reduced fraction never has a negative denominator. Examples:

$$\frac{2}{4} = \frac{1}{2}$$

$$\frac{3}{-9} = \frac{1}{-3} = \frac{-1}{3}$$

User uses standard input stream (stdin) to enter the numerator and denominator of a fraction, the system needs to display the numerator and denominator of a reduced fraction. Note that, if the denominator is 1, no need to display it.

Input:

numerator n is an integer number (-100 <= n <= 100)

denominator d is an integer number (-100 <= d <= 100)

Output:

The reduced fraction with numerator and denominator separated by a space

Example 1:

Input	Output
2 4	1 2

Example 2:

Input	Output
3 -9	-1 3

Example 3:

Input	Output
6 2	3

Example 4:

Input	Output
-15 -20	3 4

Example 5:

Input	Output
12 9	4 3