
Integer division and remainder of two natural numbers P48107_en

Write a program that reads two natural numbers a and b , with $b > 0$, and prints the integer division d and the remainder r of a divided by b .

Remember that, by definition, d i r must be the only integer numbers such that $0 \leq r < b$ and $d \cdot b + r = a$.

Input

Input consists of a and b , with $b > 0$.

Output

Print a line with the integer division and the remainder of a divided by b , separated by a space.

Observation

Although the conditions for the input of this exercise prevent divisions by zero, check what happens to your program in that case.

Sample input 1

32 6

Sample output 1

5 2

Sample input 2

30 15

Sample output 2

2 0

Problem information

Author : Jordi Petit

Translator : Carlos Molina

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