
Integer division and remainder of an integer number by a natural number

P92351_en

Write a program that reads an integer number a and a natural number 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

Depending on the programming language that you use, maybe you will need to modify a bit your program for the exercise P48107: "Integer division and remainder of two natural numbers" to make it properly work with negative a 's.

Sample input 1

32 6

Sample output 1

5 2

Sample input 2

-32 6

Sample output 2

-6 4

Sample input 3

-2147483648 10

Sample output 3

-214748365 2

Problem information

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