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

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**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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