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, \( d \) and \( r \) 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 to make it properly work with negative \( a \)'s.

**Sample input 1**

\[
32 \quad 6
\]

**Sample output 1**

\[
5 \quad 2
\]

**Sample input 2**

\[
-32 \quad 6
\]

**Sample output 2**

\[
-6 \quad 4
\]

**Sample input 3**

\[
-2147483648 \quad 10
\]

**Sample output 3**

\[
-214748365 \quad 2
\]

**Problem information**

Author : Salvador Roura  
Translator : Salvador Roura  
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