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

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