

Division

Camp IT 2019, Day 4, Available memory 64 MB

01.09.2019 - 08.09.2019

Given positive integers a and b find integers p and q such that $a = bp + q$ and $0 \leq q < b$.

Constraints

- $1 \leq a \leq 10^{100000}$
- $1 \leq b \leq 10^9$
- In 20% of the tests, the condition $a \leq 10^9$ holds.

Input

a
b

Output

In the first line of output, write down p and q separated by space.

For correctly written down only one of the required numbers you will get 50% of the points in a given test. Note that in the case of correctly outputting one of the values, you still need to output the second as described above.

Example

Wejście	Wyjście
17 4	4 1
9 11	0 9
11 11	1 0
420 69	6 6