Problem E. Complicated GCD

Time Limit 1000 ms
Mem Limit 262144 kB

Greatest common divisor $GCD(a, b)$ of two positive integers a and b is equal to the biggest integer d such that both integers a and b are divisible by d. There are many efficient algorithms to find greatest common divisor $GCD(a, b)$, for example, Euclid algorithm.

Formally, find the biggest integer d, such that all integers $a, a + 1, a + 2, ..., b$ are divisible by d. To make the problem even more complicated we allow a and b to be up to googol, 10^{100} — such number do not fit even in 64-bit integer type!

Input

The only line of the input contains two integers a and b ($1 \le a \le b \le 10^{100}$).

Output

Output one integer — greatest common divisor of all integers from a to b inclusive.

Examples

Input	Output
1 2	1

Input	Output
6180339887498948482045868343656381177203 0917980576 6180339887498948482045868343656381177203 0917980576	6180339887498948482045868343656381177203 0917980576