A. Complicated GCD

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

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
1 2

output
1

input
61803398874989484820458683436563811772030917980576 61803398874989484820458683436563811772030917980576

output
61803398874989484820458683436563811772030917980576

Codeforces Round #347 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

math

No tag edit access

→ Contest materials

- Announcement
- Tutorial