B. The Eternal Immortality

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

Even if the world is full of counterfeits, I still regard it as wonderful.

Pile up herbs and incense, and arise again from the flames and ashes of its predecessor — as is known to many, the phoenix does it like this.

The phoenix has a rather long lifespan, and reincarnates itself once every $a!$ years. Here $a!$ denotes the factorial of integer a, that is, $a! = 1 \times 2 \times ... \times a$. Specifically, $0! = 1$.

Koyomi doesn't care much about this, but before he gets into another mess with oddities, he is interested in the number of times the phoenix will reincarnate in a timespan of $b!$ years, that is, . Note that when $b \geq a$ this value is always integer.

As the answer can be quite large, it would be enough for Koyomi just to know **the last digit of the answer in decimal representation**. And you're here to provide Koyomi with this knowledge.

Input

The first and only line of input contains two space-separated integers a and b ($0 \leq a \leq b \leq 10^{18}$).

Output

Output one line containing a single decimal digit — the last digit of the value that interests Koyomi.

Examples

input
2 4
output
2

input
0 10
output
0

input
107 109
output
2

Note

In the first example, the last digit of is 2;

In the second example, the last digit of is 0;

In the third example, the last digit of is 2.