# The Eternal Immortality

**2017/2018 // UWr // MIA** | Problem code: **ETERNAL** | Limits: **1 s**, **256 MB**

*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, $\frac{b!}{a!}$. 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 $\frac{4!}{2!} = 12$ is 2;

In the second example, the last digit of $\frac{10!}{0!} = 3628800$ is 0;

In the third example, the last digit of $\frac{109!}{107!} = 11772$ is 2.