时间限制：C/C++/Rust/Pascal 8秒，其他语言16秒
空间限制：C/C++/Rust/Pascal 512 M，其他语言1024 M
64bit IO Format: %lld

题目描述

There are lots of things to do in this contest besides this problem, so let's make it quick.

Given two integers n and p, where p is prime, you need to find the value of $\mathrm{LCM}(1,2,3,\ldots,n) \bmod p$, i.e., the least common multiple of $1,2,3,\ldots,n$ modulo p.

输入描述:

> The only line contains two integers n and p ($1 \le n < p < 10^{10}$), where p is prime.

输出描述:

> Output a line containing a single integer, indicating the value of $\mathrm{LCM}(1,2,3,\ldots,n) \bmod p$.

示例1

输入 复制

```
10 9999999967
```

输出 复制

```
2520
```

说明

> For the first sample case, $\mathrm{LCM}(1,2,3,\ldots,10) = 2^3 \times 3^2 \times 5 \times 7 = 2520$.

示例2

输入 复制

```
30 9999999967
```

C++（clang++18）

1

ACM模
请通过
入输出
出描述

运行结果 自测