

A Simple Multiplication

Time limit: 0.05s **Memory limit:** 2M

Your computer engineering instructor decided to give you another task (you are the best in the class, after all):

Write a program that prints the result of $N^P \bmod M$.

Unimpressed by the supposed challenge, you open up your favourite text editor (Vim, of course) and begin typing away... in assembly.

Input Specification

The first line will contain 3 space-separated integers, N ($1 \leq N \leq 100$), P ($1 \leq P \leq 10^9$), and M ($P < M \leq 10^9 + 7$).

Output Specification

The result of $N^P \bmod M$.

Sample Input 1

```
2 5 11
```

Sample Output 1

```
10
```

Sample Input 2

```
9 100 1000000007
```

Sample Output 2

```
136318165
```

Note

To use `libc` in NASM, the first line of your program should be `; libc`. For all others, it should be `; features:
libc`.