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# Power - Mod Power

Problem

Submissions

So far, we have only heard of Python's powers. Now, we will witness them!

Powers or exponents in Python can be calculated using the built-in power function. Call the power function  $a^b$  as shown below:

```
>>> pow(a,b)
```

or

```
>>> a**b
```

It's also possible to calculate  $a^b \mod m$ .

```
>>> pow(a,b,m)
```

This is very helpful in computations where you have to print the resultant % mod.

Note: Here, a and b can be floats or negatives, but, if a third argument is present, b cannot be negative.

Note: Python has a math module that has its own pow(). It takes two arguments and returns a float. It is uncommon to use math.pow().

#### Task

You are given three integers: a, b, and m. Print two lines.

On the first line, print the result of pow(a,b). On the second line, print the result of pow(a,b,m).

#### Input Format

The first line contains a, the second line contains b, and the third line contains m.

#### Constraints

 $1 \le a \le 10$ 

 $1 \le b \le 10$ 

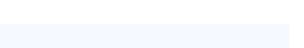
 $2 \leq m \leq 1000$ 

### Sample Input

3 4 5

## Sample Output

81





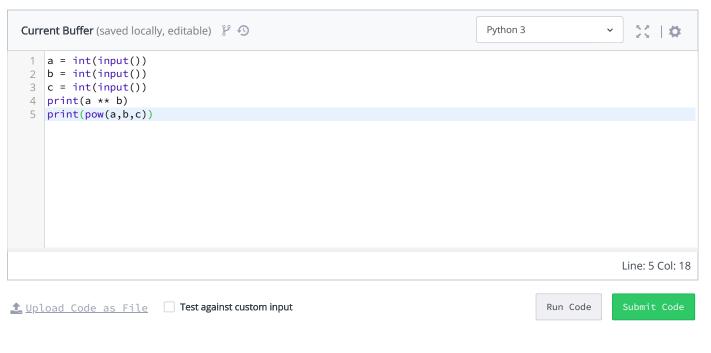
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Submissions: 927 Max Score: 50

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