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Description

Power of a Number

Program Description

Python.math module provides access to the mathematical functions defined by the C standard.

One of the widely used function is math.pow(x, y) which Returns x raised to the power y.

Now, you are given three integers x, y and M. You have to print (x ^ y) Mod M.

Input Format

First line will contain three integers x, y, and M.

Output Format

Print an Integer denoting answer of the calculation (x ^ y) Mod M.

Constraints

1 <= X <= 20

1 <= Y <= 100

2 <= M <= 100

Explaination

Input 1:

10 power 2 = 100

100 % 3 = 1

Input-1

10 2 3

Output-1

1

Input-2

C - GCC 11.1.0 ▾   ⏱ Timer   0:10 sec   🌙 ↻ ⛶   🌙

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```c
1    #include<stdio.h>
2    #include<math.h>
3    int main()
4    {
5        int x,y,z,m,s;
6        scanf("%d %d %d",&x,&y,&m);
7        z=pow(x,y);
8        s=z%m;
9        printf("%d",s);
10       return 0;
11   }
```

</> Run Code

Compiler Response

#	Testcase	Input	Expected Output	Your Output	Memory	CPU time	Result
1	10 2 3	10 2 3	1	1	1408 KB	3.666 ms	Pass
2	2 10 5	2 10 5	4	4	1408 KB	2.604 ms	Pass

All hidden testcases passed

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