# Power and exponential functions

(Time Limit: 1 second)

**Problem Description**

Given positive integers x, n and a prime P, you are asked to compute the n-th power of x modulo P, that is, xn (mod P).

**Technical Specification**

* + The number of test cases is at most 10.
  + The numbers of digits of n and x are at most 200.
  + P is a positive 31-bit integer.

**Input Format**

The test file contains several test cases. Each line is a test case and contains three integers x, n and P in this order, separated by a space.

**Output Format**

For each test case, output the result in one line.

**Example**

|  |  |
| --- | --- |
| **Sample Input:** | **Sample Output:** |
| 10 2 7  20 1 23 | 2  20 |