12/28/2018 oj | 数学公式

数学公式

Description

Implement pow(A, B) % C.In other words, given A, B and C, find (A^ B)%C

Input

The first line of input consists number of the test cases. The following T lines consist of 3 numbers each separated by a space and in the foll owing order:A B C'A' being the base number, 'B' the exponent (power t o the base number) and 'C' the modular.Constraints: $1 \le T \le 70, 1 \le A \le 10^5, 1 \le B \le 10^5, 1 \le C \le 10^5$

Output

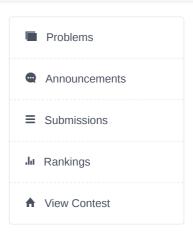
In each separate line print the modular exponent of the given numbers in the test case.

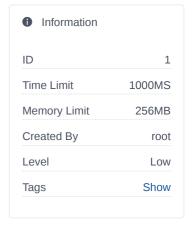
Sample Input 1 📋

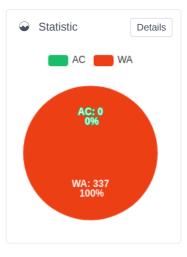
Sample Output 1

```
3
3 2 4
10 9 6
450 768 51
```

```
Language:
                                             Theme:
                                                     Solarized Light
    def f(a, b, c):
 1
 2
         k = 1
 3
        while b > 0:
 4
             if b % 2 == 1:
                 k *= a
 5
 6
                 k = k \% c
 7
             a = (a*a) \% c
             b = b >> 1
 8
 9
        return k
10 n = int(input())
11
    testcase = []
12 for i in range(n):
13
        testcase.append(list(map(int, input().split(" "))))
14 for i in range(n):
        print(f(testcase[i][0], testcase[i][1], testcase[i][2]))
                                                               Submit
```







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