**2821 - Just Another Number Sequence**

**Description**

This is a very easy problem about number sequence. We’ll define a new number sequence **Q(n)**by the formula:

**descarga.png**

Your task is calculate **Q(n)**. The answer can be very large, so print it modulo **1000000007 (10^9 + 7)**.

**Input specification**

The first line of the input contains an integer **T (1 ≤ T ≤ 1000)**, meaning the number of the test cases. For each test case there are 2 integer numbers in a single line **n** and **x** **(1 ≤ n, x ≤ 10^8)**, separated by spaces.

**Output specification**

For each test case, output the answer in a single line.

**Sample input**

2  
10 3  
4 5

**Sample output**

841449  
2930

**Hint(s)**

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| Statistics | **sub:**[85](http://coj.uci.cu/24h/status.xhtml?abb=2821)| **ac:**[25](http://coj.uci.cu/24h/status.xhtml?abb=2821&status=ac)|**ac%:** 29,41 |**score:** 3,28 |
| Created by | I Copa UCLV de Programación (Bac Nguyen Cong) |
| Added by | [mario](http://coj.uci.cu/user/useraccount.xhtml?username=mario) |
| Addition date | 2014-04-03 |
| Time limit (ms) | 1000 |
| Memory limit (kb) | 524288 |
| Output limit (mb) | 64 |
| Size limit (bytes) | 30000 |
| Enabled languages | Bash | C | C# | C++ | Java | Pascal | Perl | PHP | Python | Ruby | Text |