Power Of Numbers

Easy Accuracy: 49.24% Submissions: 42514 Points: 2

Given a number and its reverse. Find that number raised to the power of its own reverse.
Note: As answers can be very large, print the result modulo $10^9 + 7$.

Example 1:

```
Input:
N = 2
Output: 4
Explanation: The reverse of 2 is 2
and after raising power of 2 by 2
we get 4 which gives remainder as
4 by dividing 1000000007.
```

Example 2:

```
Input:
N = 12
Output: 864354781
Explanation: The reverse of 12 is 21
and 12^21 , when divided by 1000000007
gives remainder as 864354781.
```

Your Task:
You don't need to read input or print anything. You just need to complete the **function pow()** that takes two parameters **N and R** denoting the input number and its reverse and returns **power** of (N to R)mod(**$10^9 + 7$**).

Expected Time Complexity: O(LogN).
Expected Auxiliary Space: O(LogN).

Constraints:
$1 <= N <= 10^5$

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