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// https://practice.geeksforgeeks.org/problems/power-of-numbers/0
#include<iostream>
#include<math.h>
using namespace std;
unsigned long long int reverse( unsigned long long int n)
{
    unsigned long long int rev_num=0;
    while( n>0 )
    {
        rev_num = rev_num*10 + n % 10;
        n/=10;
    }
    return rev_num;
}
void solve( unsigned long long int n)
{
    unsigned long long int r;
    r=reverse(n);
    unsigned long long int remainder=n%1000000007;
    cout<< ( (unsigned long long int) pow(remainder,r) ) % 1000000007;
}
int main()
{
    int t;    cin>>t;
    while( t-- )
    {
        unsigned long long int n;  cin>>n;
        solve(n);
        cout<<"\n";
    }
    return 0;
}
```