## **GIFT DISTRIBUTION**

In a party Mr. Freddy greeted his guests by giving gift wrapped in either Blue or Red. From the first guest if he gives red one, he has a compulsion to necessarily greet with Red gift to every alternate guest from the first greeted guest i.e. if the guests are G1, G2, ..., Gi, Gi+1, ..., Gn and if he first greets with Red gift Gi then he must necessarily greet with Red Gi + 2, Gi + 4, Gi + 6 ... till the last possible guest. But there is no restriction if he is giving gift wrapped in Blue. Your task is to determine in how many ways he can greet N guests.

## Input

First line of the input contains T (T = 1000) denoting the number of test cases.

T lines follow each containing a single integer N  $(1 = N = 10^9)$  denoting the number of guests.

## **Output**

For each case the output should be a single integer representing the number of ways Freddy can greet N

## guests. As the answer can be large print it modulo 1000000007. **Example** Input 3 1 2 3 **Output** 2 4 6 **Explanation:** In the first case the possible ways are R, B Second case:

RB, BR, BB, RR

Third case:

BBB, BBR, BRB, BRR, RBR, RRR