Arya and the exponacci

Arya is very fond of fibonacci numbers. He claimed he can solve any problem on fibonacci number. His clever friend golu gave him a challenge

to prove his skills. He gave him a sequence which he called exponacci. The sequence is given by

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g(n)=2^{n} for n>0
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g(0)=1 for n==0

f(n) denotes the nth fibonacci number where

f(0)=1

f(1)=1 (Obviously golu is not as good as arya in fibonacci numbers so he believes

f(0)=1,anyways we have chosen not to disturb him)

f(n)=f(n-1)+f(n-2) for n>1

Help arya to find the nth exponacci number. Since the numbers can be very large take mod 10^9+7

Input:

The first line of the input will be the number of test cases($T \le 2000$). For each test case first line contains one integers n 0 <= n <= 1000000

Output:

The value of $g(n)\%(10^9+7)$

Sample Cases:

Input:

2

3 5

Output:

32