**Marvel’s Smartest : Vol. 2.**

**Time limit: 0.2 second**

Tony Stark can’t believeit. Dr.Doom is back. One of the smartest anti-heroes alive in Marvel Universe.

“I can’t recognise you.” said, Iron Man. “Well , the scars in my face?They are gone now, through mystical things”, replied the dethroned ruler of Latveria. Tony said in a cold voice, “Let me check again: I will ask you a question. You need to answer it within 2 minutes to prove that you are indeed the smart, genius and equally frightening Dr.Victor Von Doom, standing in front of me. And the question is-In how many ways you can express an integer **n** ( 2<=n<=100000) as the sum of one or more integers who are greater than 2?”

Input

Input will consist of N+1 lines in separate line( 1<=N <=10000)

First line will contain N, the number of values of n.

Next N line will contain one integer each denoting the value of n.

Output

For each **n**, print the number of way you can express **n** as the sum of one or more integers greater than 2. You should print the answer **modulo 109+7**.

Sample input

3

3

4

5

Sample Output

1

2

3

Explanation:

There are 3 inputs: n=3,4,5

For n=3, possible ***expressions*** are 3= { 3}=>1 way

For n=4, possible ***expressions*** are 4={ 4 , 2+2}=>2 ways

For n=5 , possible expressions are 5={5,2+3,3+2}=>3 ways