Project Euler #76: Counting summations

This problem is a programming version of Problem 76 from projecteuler.net

It is possible to write five as a sum in exactly six different ways:

$$4+1$$
$$3+2$$
$$3+1+1$$
$$2+2+1$$
$$2+1+1+1$$
$$1+1+1+1+1$$

How many different ways can N be written as a sum of at least two positive integers?

As answer can be large, print $\%(10^9+7)$

Input Format

First line of the input contains T, which is number of testcases.
Each testcase contains N.

Constraints

$1 \leq T \leq 100$
$2 \leq N \leq 1000$

Output Format

Print the output corresponding to each testcase on a new line.

Sample Input

```
2
5
6
```

Sample Output

```
6
10
```