# **Project Euler #78: Coin partitions**

This problem is a programming version of Problem 78 from projecteuler.net

Let p(n) represent the number of different ways in which n coins can be separated into piles. For example, five coins can separated into piles in exactly seven different ways, so p(5) = 7.

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How many different ways can N coins be separated into piles?

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

 $1 \leq T \leq 100 \; 2 \leq N \leq 6 imes 10^4$ 

### **Output Format**

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

### Sample Input

2 5

6

### Sample Output

7 11