#### 1542 - Yet Another Permutations Problem

# Description

How many permutations of the first N numbers exist such that the maximum element between the indices [i...j] is either present at index i, or at index j?

#### Input specification

The first line contains the number of test cases T. Each of the next T lines contains an integer N.

### Output specification

Output T lines containing the required answer for the corresponding test case. Since the answers can get really big, output the result modulo 100000007.

## Sample input

1 2

# Sample output

2

### Hint(s)

1 <= T <= 10000 1 <= N <= 1000000000

Source Sphere Online Judge

Added by ejaltuna

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Time limit (ms) 10000

Test limit (ms) 1000

Memory limit (kb) 65536

Output limit (mb) 64

# Caribbean Online Judge

Size limit (bytes) 100000

Enabled languages

C C# C++ Java Pascal Perl PHP

Enabled languages

Python Ruby Text