Timothy's Marbles

Filename: `marbles`

Timothy loves geometry! For his sixth birthday, he received a box with n marbles from his parents. He immediately began playing with them by arranging them along a circle. Timothy began wondering, how many different polygons can he make by drawing lines between the marbles? Two polygons are different if they are composed out of a different set of marbles.

The Problem:

Given n marbles along a circle, count the number of unique polygons that can be made. As the answer can be very large, print it modulo 1,000,000,007.

The Input:

The first line of the input file begins with a single, positive integer, t, representing the number of test cases. For each test case, a single line follows containing a single integer $1 \leq n \leq 10^4$ representing the number of marbles.

The Output:

For each test case, output a single line saying "`Marble Set #i: c`" without the quotes, where `i` is the test case number, and `c` is the number of polygons Timothy can make modulo 1,000,000,007.

Sample Input:

```
3
2
3
5
```

Sample Output:

```
Marble Set #1: 0
Marble Set #2: 1
Marble Set #3: 16
```