D	Bad Cook	Time Limit: **1 sec**
	Setter: Mir Imtiaz Mostafiz Naved	Memory Limit: **512 MB**

Mr. Meme has recently moved to a foreign country named "Gloryland" for study purpose. There, he has to cook for himself. But he is not even an amateur. He always messes up his recipe. Say, there are **3** steps in a recipe: Boil, Put Spice, and Fry. He will never do it in order: he may put spice first, then fry, then boil things.

But there is an interesting pattern in his messing up of recipe. Let's say the recipe includes **n** steps. He always messes up in such a way that odd-numbered steps never come consecutively in his cooking. So, if the recipe contains **5** steps: 1, 2, 3, 4, 5 - he will never do things like 2, 1, 3, 5, 4 or 2, 1, 4, 3, 5 - where you can find consecutive odd-numbered steps.

And remember, he always messes up!! Doing 1, 2, 3, 4, 5 is not valid in his case although there are no consecutive odd-numbered steps, because it is the right recipe!

Input:

The input file will contain **T+1** lines **(1 <= T <= 2000)**. First line will contain **T**, the number of test cases. Each of next **T** line will contain a single integer **N (2<=N<=2000)**, the number of steps of a recipe.

Output:

For each **N**, print the number of ways Mr. Meme can mess up the recipe. Print the result modulo **1000000007**.

Sample I/O:

Sample Input	Sample Output
2 4 3	11 1

Note: For the first sample, the valid combinations for **N** = 4 are: 1243, 1423, 1432, 2143, 2341, 3214, 3241, 3412, 3421, 4123, 4321. For the second sample, the valid combinations for **N** = 3 is 321 only.