



Cut the Circle

locked

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Problem

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Given some set of points on a circle, you connect every pair of them with a line, find the maximum number of sections do these lines cut the circle into?

Input Format

First line for each testcase file contains T denoting the no. of test queries followed by T numbers N, denoting the no. of point on a circle.

Constraints

- $1 \leq T \leq 100000$
- $1 \leq N \leq 100000$
- **Note:** Use fast I/O methods.

Output Format

For each test query, ouput the result in given format. As the result can be large answer the result modulus $1000000007 (10^9 + 7)$.

Case_No: max_section_circle_cuts_into

Sample Input 0

```
3
1
2
6
```

Sample Output 0

```
Case 1: 1
Case 2: 2
Case 3: 31
```

Submissions: 35

Max Score: 14



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C  

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
```

Line: 1 Col: 1

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