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Number of Diagonals

? Ask Doubt

Time-Limit: 1 sec

Score: 100.00/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Relevant For:

AZ-201

Description

Find the number of diagonals in the Convex N -gon.

Input Format

The first line contains T ($1 \leq T \leq 100000$), the number of test cases.
Each of the next T lines contains a positive integer N denoting the number of sides of convex polygon ($3 \leq N \leq 10^9$).

Output Format

For each test case, print a single number denoting the number of diagonals in the convex N -gon. Since answer can be large, print it with modulo 1000000007.

Sample Input 1

Copy

```
2
4
5
```

Sample Output 1

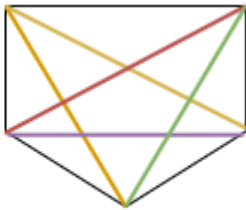
Copy

```
2
5
```

Note



Example 1



Example 2

C++14[GCC] ▾

1

Submit