## Euler Puzzle

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

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:

$1<=T<=100000\left(10^{5}\right)$
$1<=\mathrm{N}<=100000\left(10^{5}\right)$
Note: Use fast I/O methods.

## Output

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

Case <test_query_i>: <max_section_circle_cuts_into>

## Example

## Input:

3
1
2
6
Output:
Case 1: 1
Case 2: 2
Case 3: 31

