## Smallest Number

Your Task is extremely simple, for a given number N you have to find the smallest number which is divisible by all numbers from 1 to N without leaving any remainder, As number can be very large print the answer modulo 1000000007.

## Input

Input starts with a positive integer $\mathrm{T}<501$ in a single line, then T lines follow. Each of the T lines contains one positive integer $\mathrm{N}<10001$.

## Output

For every N print the desired number.

## Example

Input:
1
5

## Output:

60

