HackerRank

Project Euler #31: Coin sums

This problem is a programming version of Problem 31 from projecteuler.net

In England the currency is made up of pound, \mathbf{f} , and pence, p, and there are eight coins in general circulation:

It is possible to make £2 in the following way:

$$1\times \mathtt{f}1 + 1\times 50p + 2\times 20p + 1\times 5p + 1\times 2p + 3\times 1p$$

How many different ways can N p be made using any number of coins? As the result can be large print answer mod (10^9+7)

Input Format

The first line contains an integer T , i.e., number of test cases. Next T lines will contain an integer N.

Note: N is given as p and not ${f f}$

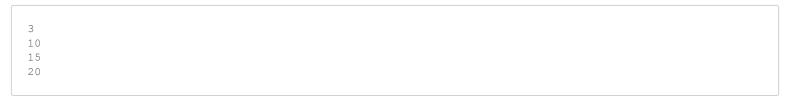
Constraints

$$1 \le T \le 10^4 \\ 1 < N < 10^5$$

Output Format

Print the values corresponding to each test case.

Sample Input



Sample Output

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11
22
41
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