# 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,  $\mathbf{p}$ , and there are eight coins in general circulation:

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

$$1 \times \text{£}1 + 1 \times 50p + 2 \times 20p + 1 \times 5p + 1 \times 2p + 3 \times 1p$$

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

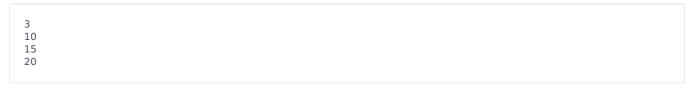
#### **Constraints**

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

#### **Output Format**

Print the values corresponding to each test case.

## **Sample Input**



### **Sample Output**

