Denominations **(denominations)**

Memory limit: 512 MB Time limit: 1.00 s

Greedy Smurf is opening a new shop in Smurf Village. Smurfs use coins with four denominations: 1, 5, 10 and 25 SmurfCoins. Write a program that will compute for Greedy the number of ways that he can give change of n SmurfCoins.

Output the number of different ways of giving change modulo $10^9 + 7$. Two ways of giving change are considered different if they differ in the amount of used coins of some denomination.

Input

First line of input file contains the number of testcases t ($1 \leq t \leq 100\,000$). Each testcase consists of a single line containing integer n ($1 \leq n \leq 10^{18}$) – the amount of change.

Output

For each testcase output the number of different ways of giving change modulo $10^9 + 7$. Two ways of giving change are considered different if they differ in the amount of used coins of some denomination.

Examples

Input	Output
2 6 14	2 4