Truncky Numbers

Asutosh is very passionate about numbers. he has found a new type of numbers and calls them 'truncky numbers'.

He has challenged his friend Shantanu to find the sum of first n truncky numbers. As shantanu is weak at programming,

help him to complete his challenge.

A Truncky number is defined as:-

- 1) sum of digits in the number is of the form (5*k + 1) where k=number of digits.
- 2)absolute difference between any two digits in the number is either 0 or 1.
- 3) digits are in the non decreasing order.

Input

the first line contains T(number of test cases). Each test contains only one integer n.

Output

print in single line sum of first n truncky numbers modulo 10⁹ + 7.

Each output in new line.

CONSTRAINTS:

T<=30

 $N <= 10^{17}$

Example

Input:

1

Output:

60