## 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 $\left(5^{*} k+1\right)$ where $k=n u m b e r ~ o f ~ d i g i t s . ~$
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 $10^{\wedge} 9+7$.
Each output in new line.
CONSTRAINTS:
$\mathrm{T}<=30$
$N<=10^{\wedge} 17$

## Example

Input:
1
2
Output:
62

