## Digit Mode

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 2 seconds |
| Memory limit: | 256 megabytes |

Let $m(x)$ be the mode of the digits in decimal representation of positive integer $x$. The mode is the largest value that occurs most frequently in the sequence. For example, $m(15532)=5, m(25252)=2$, $m(103000)=0, m(364364)=6, m(114514)=1, m(889464)=8$.
Given a positive integer $n$, DreamGrid would like to know the value of $\left(\sum_{x=1}^{n} m(x)\right) \bmod \left(10^{9}+7\right)$.

## Input

There are multiple test cases. The first line of the input contains an integer $T$, indicating the number of test cases. For each test case:
The first line contains a positive integer $n\left(1 \leq n<10^{50}\right)$ without leading zeros.
It's guaranteed that the sum of $|n|$ of all test cases will not exceed 50 , where $|n|$ indicates the number of digits of $n$ in decimal representation.

## Output

For each test case output one line containing one integer, indicating the value of $\left(\sum_{x=1}^{n} m(x)\right) \bmod \left(10^{9}+7\right)$.

## Example

|  | standard input | standard output |
| :--- | :--- | :--- |
| 5 | 45 |  |
| 9 | 615 |  |
| 99 | 6570 |  |
| 999 | 597600 |  |
| 9999999 | 5689830 |  |

