

# Project Euler #164: Numbers for which no three consecutive digits have a sum greater than a given value.

This problem is a programming version of [Problem 164](#) from [projecteuler.net](#)

How many  $m$  – *digit* numbers  $n$  (without any leading zero) exist such that no three consecutive digits of  $n$  have a sum greater than 9?

Print answer modulo  $(10^9 + 7)$ .

## Input Format

One integer is given on first line representing  $m$ .

## Constraints

- $3 \leq m \leq 100$

## Output Format

Print one integer which is the answer modulo  $(10^9 + 7)$

## Sample Input 0

```
3
```

## Sample Output 0

```
165
```