# Project Euler \#34: <br> Digit factorials 

This problem is a programming version of Problem 34 from projecteuler.net
19 is a curious number, as $1!+9!=1+362880=362881$ which is divisible by 19 .
Find the sum of all numbers below $N$ which divide the sum of the factorial of their digits.
Note: as $1!, 2!, \cdots, 9$ ! are not sums they are not included.

## Input Format

Input contains an integer $N$

## Constraints

$10 \leq N \leq 10^{5}$

## Output Format

Print the answer corresponding to the test case.

## Sample Input

```
    2 0
```


## Sample Output

