

# Project Euler #37: Truncatable primes

## Problem Statement

This problem is a programming version of [Problem 37](#) from [projecteuler.net](#)

The number 3797 has an interesting property. Being prime itself, it is possible to continuously remove digits from left to right, and remain prime at each stage: 3797, 797, 97, and 7. Similarly we can work from right to left: 3797, 379, 37, and 3.

Find the sum of primes that are both truncatable from left to right and right to left below  $N$ .

NOTE: 2, 3, 5, and 7 are not considered to be truncatable primes.

## Input Format

Input contains an integer  $N$ .

## Output Format

Print the answer corresponding to the test case.

## Constraints

$$100 \leq N \leq 10^6$$

## Sample Input

100

## Sample Output

186