Fall 2021 ECE30017: Problem Solving through Computational Thinking

Problem #1

Due date: 12:00 PM (Noon), 7 Sept, 2021

31 August 2020

P1. Broken Hit Counter

A website has a counter that counts the number of hits from outside, that is, the number of connections from outside. The counter is supposed to increase by one for every hit.

However, it is broken so that every digit changes from 3 to 5, not to 4. For instance, if the current number is 15339, the next one is 15350, not 15340.

Write a program that reads a current number of this hit counter and returns the actual number of the webpage hits.

Requirements

- As input, a non-negative integer between 0 and 10^8 is given from the standard input. Note that none of the number's digits is 4.

- Your program must receive an input from the standard input and write the answer to the standard output in 0.5 seconds.

- You can assume that an input is always valid.

Examples

- Input 1

13

- Output 1

12

- Input 2

1399

- Output 2

1052

- Input 3

1399

- Output 3

1052

- Input 4

999999

- Output 4

531440