#### Problem D. Veci

Time Limit 1000 ms

Mem Limit 1048576 kB

OS Linux

Your program will be given an integer X. Find the smallest number larger than X consisting of the same digits as X.

## **Input**

The first line of input contains the integer X ( $1 \le X \le 999\,999$ ). The first digit in X will not be a zero.

#### Output

Output the result on a single line. If there is no such number, output 0.

## Sample 1

Input	Output
156	165

### Sample 2

Input	Output
330	0

# Sample 3

Input	Output
27711	71127