

# Veci

**Problem ID:** veci**CPU Time limit:** 1 second**Memory limit:** 1024 MB**Difficulty:** 1.8

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  $X$  ( $1 \leq X \leq 999\,999$ ). The first digit in  $X$  will not be a zero.

**Source:** Croatian Open Competition in Informatics 2007/2008, contest #4

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## Output

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

### Sample Input 1

156

### Sample Output 1

165

### Sample Input 2

330

### Sample Output 2

0

### Sample Input 3

27711

### Sample Output 3

71127