

# COCI '07 Contest 4 #2 Veci

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**Time limit:** 1.0s   **Memory limit:** 32M

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

## Input Specification

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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.

## Output Specification

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

## Sample Input 1

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156
```

## Sample Output 1

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```
165
```

## Sample Input 2

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```
330
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## Sample Output 2

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```
0
```

## Sample Input 3

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27711

### Sample Output 3

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71127