2363 - Veci

Description

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

Input specification

The first line of input contains the integer X (**1 <= X <= 999 999**).
The first digit in X will not be a zero.

Output specification

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

Sample input

```
156
```

Sample output

```
165
```

Hint(s)

Source	Croatian Open Competition in Informatics 2008, Contest 4
Added by	**ralcolea**
Addition date	2013-05-02
Time limit (ms)	10000
Test limit (ms)	1000
Memory limit (kb)	65535
Output limit (mb)	64
Size limit (bytes)	30000

Enabled languages

Bash C C# C++ Java Pascal Perl PHP Python Ruby Text

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