

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Beautiful Year

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

It seems like the year of 2013 came only yesterday. Do you know a curious fact? The year of 2013 is the first year after the old 1987 with only distinct digits.

Now you are suggested to solve the following problem: given a year number, find the minimum year number which is strictly larger than the given one and has only distinct digits.

Input

The single line contains integer y (1000 $\le y \le 9000$) — the year number.

Output

Print a single integer — the minimum year number that is strictly larger than y and all it's digits are distinct. It is guaranteed that the answer exists.

Examples

input	Сору
1987	
output	Сору
2013	
input	Сору
2013	
output	Сору
2014	

→ Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

Codeforces Round #166 (Div. 2)

COUCHO ROUND WILDO (DIVIE).
Finished
Practice

→ Virtual participation

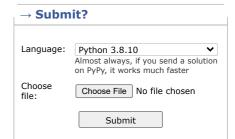
Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



→ Last submissions

Submission	Time	Verdict
168362882	Aug/15/2022 12:58	Wrong answer on test 3
168362569	Aug/15/2022 12:55	Compilation error

→ Proble	m tags	
brute force	*800	

No tag e	edit access			
→ Contest materials				
Announcement	×			
Tutorial #1 (ru)	×			
• editroal (en)	×			

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