CODECHEF
A *Directi* Educational Initiative

Hello 2★ **jacobian8162** ▾   4

Logout (/logou

(/users/jacobian8162)

PRACTICE (/PROBLEMS/SCHOOL)   **COMPETE (/CONTESTS)**   **DISCUSS (HTTP://DISCUSS.CODECHEF.COM/)**

COMMUNITY (/COMMUNITY)   **HELP (/HELP)**   **ABOUT (/ABOUTUS)**

Home (/) » Practice(Medium) (/problems/medium/) » The Next Palindrome

The Next Palindrome   Problem Code: **PALIN**   Submit (/submit/PALIN)

Tweet   Like   Share   15 people like this.

All submissions for this problem are available.

A positive integer is called a *palindrome* if its representation in the decimal system is the same when read from left to right and from right to left. For a given positive integer K of not more than 1000000 digits, write the value of the smallest palindrome larger than K to output. Numbers are always displayed without leading zeros.

My Submissions
(/status/PALIN,jacobian8162)

All Submissions
(/status/PALIN)

Successful Submissions   **+**

Input

The first line contains integer t, the number of test cases. Followed by t lines containing integers K.

Output

For each K, output the smallest palindrome larger than K.

Example

```
Input:
2
808
2133
```

```
Output:
818
2222
```

Warning: large Input/Output data, be careful with certain languages

Author:	admin (/users/admin)
Tags:	admin (/tags/problems/admin)
Date Added:	1-12-2008
Time Limit:	9 secs
Source Limit:	50000 Bytes
Languages:	ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 6.3, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PHP, PIKE, PRLG, PYTH, PYTH 3.5, RUBY, SCALA, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

Submit (/submit/PALIN)

Comments ▶

CodeChef (http://www.codechef.com) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section (https://www.codechef.com/problems/easy) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

Compete (https://www.codechef.com/problems/easy) - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), $700 (for Global Community) and lots more CodeChef goodies up for grabs.

Programming Tools	**Practice Problems**
Online IDE (https://www.codechef.com/ide)	Easy (https://www.codechef.com/problems/easy)
Upcoming Coding Contests (http://www.codechef.com/contests#FurtureContests)	Medium (https://www.codechef.com/problems/medium)
Contest Hosting (http://www.codechef.com/hostyourcontest)	Hard (https://www.codechef.com/problems/Hard)
Problem Setting (http://www.codechef.com/problemsetting)	Challenge (https://www.codechef.com/problems/challenge)
CodeChef Tutorials (http://www.codechef.com/wiki/tutorials)	Peer (https://www.codechef.com/problems/extcontest)
CodeChef Wiki (https://www.codechef.com/wiki)	School (https://www.codechef.com/problems/school)
	FAQ's (https://www.codechef.com/wiki/faq)

Initiatives

Go for Gold (http://www.codechef.com/goforgold)

CodeChef for Schools (http://www.codechef.com/school)

Campus Chapters (http://www.codechef.com/campus_chapter/about)

Domain Registration in India (http://www.bigrock.in/) and Web Hosting (http://www.bigrock.com/web-hosting/) powered by BigRock