

[Home](#) » [Practice\(Extcontest\)](#) » Prime Palindromes

# Prime Palindromes

Problem Code: **PRPALIN**

Submit



An integer is said to be a palindrome if it is equal to its reverse. For example, 79197 and 324423 are palindromes. In this task you will be given an integer N,  $1 \leq N \leq 1000000$ . You must find the smallest integer  $M \geq N$  such that M is a prime number and M is a palindrome.

For example, if N is 31 then the answer is 101.

## Input

A single integer N, ( $1 \leq N \leq 1000000$ ), on a single line.

## Output

Your output must consist of a single integer, the smallest prime palindrome greater than or equal to N.

## Example

**Input :**

31

**Output :**

101

All submissions for this problem are available.

Author:	<a href="#">admin</a>
Editorial:	<a href="https://discuss.codechef.com/problems/PRPALIN">https://discuss.codechef.com/problems/PRPALIN</a>
Tags:	<a href="#">admin</a> , <a href="#">conditional-statement</a> , <a href="#">easy</a> , <a href="#">looping</a>
Date Added:	28-07-2009
Time Limit:	1 secs
Source Limit:	50000 Bytes
Languages:	CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYPY, PYP3, TEXT, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, CAML, ASM, FORT, FS, LISP clisp, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, SCM qobi, ST, NEM

Submit

My Submissions

All Submissions

Successful Submissions

+

## Comments ▶

[CodeChef is a competitive programming community](#)[About CodeChef](#) | [Contact Us](#)The time now is: 07:44:27 PM  
Your IP: 157.47.70.41CodeChef uses SPOJ © by [Sphere Research Labs](#)In order to report copyright violations of any kind, send in an email to [copyright@codechef.com](mailto:copyright@codechef.com)

### CodeChef - 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 two smaller programming challenges at the middle and end 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 - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our **programming contest** judge accepts solutions in over 55+ 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 - Monthly Programming Contests, Cook-off and Lunchtime

Here is where you can show off your **computer programming skills**. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime **coding contests**. 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

[Online IDE](#)[Upcoming Coding Contests](#)[Contest Hosting](#)[Problem Setting](#)[CodeChef Tutorials](#)[CodeChef Wiki](#)

#### Practice Problems

[Easy](#)[Medium](#)[Hard](#)[Challenge](#)[Peer](#)[School](#)[FAQ's](#)

#### Initiatives

[Go for Gold](#)[CodeChef for Schools](#)[College Chapters](#)[CodeChef for Business](#)

#### Policy

[Terms of Service](#)[Privacy Policy](#)[Refund Policy](#)[Code of Conduct](#)[Bug Bounty Program](#)