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Ciel Numbers I

Problem code: CIELNUM1



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ALL SUBMISSIONS

SUBMIT

All submissions for this problem are available.

Recently, chef Ciel often hears about *lucky numbers*.

Everybody knows that lucky numbers are positive integers whose decimal representation contains only the lucky digits 4 and 7. For example, numbers 47, 744, 4 are lucky and 5, 17, 467 are not.

Ciel decides to make *Ciel numbers*.

As you know, Ciel likes the digit 8 very much.

And then, Ciel likes the digits 5 and 3.

So Ciel defines Ciel numbers as the positive integers k such that $d(k, 8) \geq d(k, 5) \geq d(k, 3)$ and $d(k, i) = 0$ for all $i = 0, 1, 2, 4, 6, 7, 9$,where $d(k, i)$ denotes the number of the digit i in the decimal representation of the integer k .

For example, the first few Ciel numbers are 8, 58, 85, 88, 358, 385, 538, 583, 588, 835, 853, 858, 885, 888,

Ciel would like to know about Ciel numbers.

Your task is to find the first 50000 Ciel numbers.

Input

This problem has no inputs.

Output

Print the first 50000 Ciel numbers in order of increasing.

Sample Output

```
8
58
85
88
... (49996 lines)
```

Author: laycurse

Tester: rajivka

Editorial: <http://discuss.codechef.com/problems/CIELNUM1>

Tags: cook20 easy laycurse

Date Added: 27-02-2012

Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.8.1, CPP11, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAR, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

Comments

Please login at the top to post a comment.

hellodear @ 25 Mar 2012 02:20 PM

nice question :-)

monish001 @ 9 Nov 2012 02:58 PM

SUCCESSFUL SUBMISSIONS

User	Time	Mem	Lang	Solution
r3m3dy	0.00	2.6M	C++ 4.3.2	View
cooolshekhhar	0.01	1.6M	C	View
aakashns	0.02	1.6M	C	View
harekrishnasir	0.02	1.6M	C	View
courtesy	0.02	1.6M	C	View
quandray	0.02	2.6M	C++ 4.3.2	View
ishan_123	0.03	2.6M	C++ 4.3.2	View
rmagon	0.03	2.6M	C++ 4.3.2	View
shagunakarsh	0.03	2.6M	C++ 4.3.2	View
aditya26	0.03	2.6M	C++ 4.3.2	View
v1a2_3	0.04	2.2M	C	View
anubhawraj	0.04	2.6M	C++ 4.3.2	View

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Next »

HELP


Program should read from **standard input** and write to **standard output**. After you submit a solution you can see your results by clicking on the **[My Submissions]** tab on the problem page. Below are the possible results:


■ **Accepted** ✓ Your program ran successfully and gave a correct answer. If there is a score for the problem, this will be displayed in parenthesis next to the checkmark.

■ **Time Limit Exceeded** ⚡ Your program was compiled successfully, but it didn't stop before time limit. Try optimizing your approach.

■ **Wrong Answer** ✗ Your program compiled and ran successfully but the output did not match the expected output.

any editorial like explanation for the solution?

■ **Runtime Error**  Your code compiled and ran but encountered an error. The most common reasons are using too much memory or dividing by zero. For the specific error codes see the help section.

■ **Compilation Error**  Your code was unable to compile. When you see this icon, click on it for more information.

If you are still having problems, see a sample solution [here](#).

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Directi
Empowering People, Transforming Ideas.

The time now is: 08:28:15 AM
Your Ip: 186.62.5.64

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 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 - 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 - 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 Rs.20,000 and \$700 lots more CodeChef goodies up for grabs.

Discuss

Are you new to **computer programming**? Do you need help with algorithms? Then be a part of CodeChef's Forums and interact with all our programmers - they love helping out other programmers and sharing their ideas. Have discussions around **binary search**, **array size**, **branch-and-bound**, **Dijkstra's algorithm**, **Encryption algorithm** and more by visiting the CodeChef Forums and Wiki section.

CodeChef Community

As part of our Educational initiative, we give institutes the opportunity to associate with CodeChef in the form of Campus Chapters. Hosting **online programming competitions** is not the only feature on CodeChef. You can also host a **coding contest** for your institute on CodeChef, organize an **algorithm** event and be a guest author on our blog.

Go For Gold

The Go for Gold Initiative was launched about a year after CodeChef was incepted, to help prepare Indian students for the **ACM ICPC** World Finals competition. In the run up to the **ACM ICPC** competition, the Go for Gold initiative uses CodeChef as a platform to train students for the **ACM ICPC** competition via multiple warm up contests. As an added incentive the Go for Gold initiative is also offering over Rs.8 lacs to the Indian team that beats the 29th position at the **ACM ICPC** world finals. Find out more about the Go for Gold and the **ACM ICPC** competition [here](#).