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Home » Practice(Medium) » Bytelandian gold coins Bytelandian gold coins Problem Code: COINS Submit My Submissions All Submissions In Byteland they have a very strange monetary system. Each Bytelandian gold coin has an integer number written on it. A coin n can be **Successful Submissions** exchanged in a bank into three coins: n/2, n/3 and n/4. But these numbers are all rounded down (the banks have to make a profit). You can also sell Bytelandian coins for American dollars. The exchange rate is 1:1. But you can not buy Bytelandian coins. You have one gold coin. What is the maximum amount of American dollars you can get for it? Input The input will contain several test cases (not more than 10). Each testcase is a single line with a number n, 0 <= n <= 1 000 000 000. It is the number written on your coin. Output For each test case output a single line, containing the maximum amount of American dollars you can make. Example Input: 12 Output: 13 You can change 12 into 6, 4 and 3, and then change these into 6+4+3=13. If you try changing the coin 2 into 3 smaller coins, you will get 1, 0 and 0, and later you can get no more than 1 out of them. It is better just to change the 2 coin directly into 2. All submissions for this problem are available. Author: u admin codechef pw u_admin_codechef_pw Tags: 1-12-2008 Date Added: 3.6231 secs Time Limit: Source Limit: 50000 Bytes CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYPY, Languages: PYP3, TEXT, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, kotlin, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, CAML, rust, ASM, FORT, FS, LISP clisp, swift, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, COB, SCM chicken, SCM qobi, ST, NEM Submit

CodeChef is a competitive programming community

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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	Practice Problems	<u>Initiatives</u>	<u>Policy</u>
Online IDE	<u>Easy</u>	Go for Gold	Terms of Service
<u>Upcoming Coding Contests</u>	<u>Medium</u>	CodeChef for Schools	Privacy Policy
Contest Hosting	<u>Hard</u>	College Chapters	Refund Policy
Problem Setting	<u>Challenge</u>	CodeChef for Business	Code of Conduct
CodeChef Tutorials	<u>Peer</u>		Bug Bounty Program
CodeChef Wiki	School		
	FAQ's		