



Competitive Programming



Methods to Solve (2000-present)

Use these filters to narrow down your next problem to solve:

OJ: , Topic: , Quality:

Online Judge shown: Both

Problem topics shown: Chapter 5 : Mathematics only

Problem Quality: Starred

Number of problems shown (initially in CP4 order): 216

Information is up to date as of 10 February 2022

You can now sort these problems based on Distinct ACcepted Users (DACU) column.




Generally, problems with high DACU are the easier problems.

























Note that we only update DACU column manually (not a live data).

























Note: Column Point is only relevant for Kattis online judge.

























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Search:

























Both OJ	Problem Title	CP4
10751	 Chessboard	5.2a, Finding Formula, Easier
12004	 Bubble Sort	5.2a, Finding Formula, Easier
12918	 Lucky Thief	5.2a, Finding Formula, Easier

























Both OJ	Problem Title	CP4
<i>averageshard</i>	 <u>averageshard</u>	5.2a, Finding Formula, Easier
<i>bishops</i>	 <u>bishops</u>	5.2a, Finding Formula, Easier
<i>crne</i>	 <u>crne</u>	5.2a, Finding Formula, Easier
<i>twostones</i>	 <u>twostones</u>	5.2a, Finding Formula, Easier
10161	 <u>Ant on a Chessboard</u>	5.2b, Finding Formula, Harder
11038	 <u>How Many O's?</u>	5.2b, Finding Formula, Harder
11231	 <u>Black and white painting</u>	5.2b, Finding Formula, Harder
11718	 <u>Fantasy of a Summation</u>	5.2b, Finding Formula, Harder
<i>mortgage</i>	 <u>mortgage</u>	5.2b, Finding Formula, Harder
<i>neighborhoodwatch</i>	 <u>neighborhoodwatch</u>	5.2b, Finding Formula, Harder
<i>nine</i>	 <u>nine</u>	5.2b, Finding Formula, Harder
00343	 <u>What Base Is This?</u>	5.2c, Base Number Conversion
00389	 <u>Basically Speaking</u>	5.2c, Base Number Conversion
11952	 <u>Arithmetic</u>	5.2c, Base Number Conversion
<i>allaboutthatbase</i>	 <u>allaboutthatbase</u>	5.2c, Base Number Conversion
<i>arithmetic</i>	 <u>arithmetic</u>	5.2c, Base Number Conversion
<i>basicremains</i>	 <u>basicremains</u>	5.2c, Base Number Conversion
<i>oktalni</i>	 <u>oktalni</u>	5.2c, Base Number Conversion
00377	 <u>Cowculations</u>	5.2d, Base Number Variants
00575	 <u>Skew Binary</u>	5.2d, Base Number Variants
10931	 <u>Parity</u>	5.2d, Base Number Variants
11121	 <u>Base -2</u>	5.2d, Base Number Variants
<i>aliennumbers</i>	 <u>aliennumbers</u>	5.2d, Base Number Variants
<i>ignore</i>	 <u>ignore</u>	5.2d, Base Number Variants

























Both OJ	Problem Title	CP4
<i>mixedbasearithmetic</i>	 <i>mixedbasearithmetic</i>	5.2d, Base Number Variants
00443	 <i>Humble Numbers</i>	5.2e, Number Systems/Seqs
10408	 <i>Farey sequences</i>	5.2e, Number Systems/Seqs
11970	 <i>Lucky Numbers</i>	5.2e, Number Systems/Seqs
<i>candlebox</i>	 <i>candlebox</i>	5.2e, Number Systems/Seqs
<i>collatz</i>	 <i>collatz</i>	5.2e, Number Systems/Seqs
<i>permutedarithmeticsequence</i>	 <i>permutedarithmeticsequence</i>	5.2e, Number Systems/Seqs
<i>rationalsequence</i>	 <i>rationalsequence</i>	5.2e, Number Systems/Seqs
00701	 <i>The Archeologists' Dilemma</i>	5.2f, Log, Exp, Pow
11384	 <i>Help is needed for Dexter</i>	5.2f, Log, Exp, Pow
11847	 <i>Cut the Silver Bar</i>	5.2f, Log, Exp, Pow
12416	 <i>Excessive Space Remover</i>	5.2f, Log, Exp, Pow
<i>cokolada</i>	 <i>cokolada</i>	5.2f, Log, Exp, Pow
<i>factstone</i>	 <i>factstone</i>	5.2f, Log, Exp, Pow
<i>thebackslashproblem</i>	 <i>thebackslashproblem</i>	5.2f, Log, Exp, Pow
00264	 <i>Count on Cantor</i>	5.2g, Grid
10022	 <i>Delta-wave</i>	5.2g, Grid
10182	 <i>Bee Maja</i>	5.2g, Grid
10233	 <i>Dermuba Triangle</i>	5.2g, Grid
<i>beehouseperimeter</i>	 <i>beehouseperimeter</i>	5.2g, Grid
<i>honeyheist</i>	 <i>honeyheist</i>	5.2g, Grid
<i>maptiles2</i>	 <i>maptiles2</i>	5.2g, Grid
00930	 <i>Polynomial Roots</i>	5.2h, Polynomial
10268	 <i>498-bis</i>	5.2h, Polynomial

























Both OJ	Problem Title	CP4
10302	 Summation of Polynomials	5.2h, Polynomial
10586	 Polynomial Remains	5.2h, Polynomial
ada	 ada	5.2h, Polynomial
curvyblocks	 curvyblocks	5.2h, Polynomial
plot	 plot	5.2h, Polynomial
00332	 Rational Numbers from Repe...	5.2i, Fractions
00834	 Continued Fractions	5.2i, Fractions
12068	 Harmonic Mean	5.2i, Fractions
deadfraction	 deadfraction	5.2i, Fractions
fraction	 fraction	5.2i, Fractions
mixedfractions	 mixedfractions	5.2i, Fractions
thermostat	 thermostat	5.2i, Fractions
00496	 Simply Subsets	5.2j, Really Ad Hoc
11241	 Humidex	5.2j, Really Ad Hoc
11526	 H(n).	5.2j, Really Ad Hoc
12036	 Stable Grid	5.2j, Really Ad Hoc
matrix	 matrix	5.2j, Really Ad Hoc
trip	 trip	5.2j, Really Ad Hoc
yoda	 yoda	5.2j, Really Ad Hoc
00543	 Goldbach's Conjecture	5.3a, Prime Numbers
01644	 Prime Gap	5.3a, Prime Numbers
10650	 Determinate Prime	5.3a, Prime Numbers
11752	 The Super Powers	5.3a, Prime Numbers
enlarginghashtables	 enlarginghashtables	5.3a, Prime Numbers






















Both OJ	Problem Title	CP4
<i>primesieve</i>	 <u>primesieve</u>	5.3a, Prime Numbers
<i>reseto</i>	 <u>reseto</u>	5.3a, Prime Numbers
<i>01180</i>	 <u>Perfect Numbers</u>	5.3b, (Prob) Prime Testing
<i>01210</i>	 <u>Sum of Consecutive Prime N...</u>	5.3b, (Prob) Prime Testing
<i>10235</i>	 <u>Simply Emirp</u>	5.3b, (Prob) Prime Testing
<i>flowergarden</i>	 <u>flowergarden</u>	5.3b, (Prob) Prime Testing
<i>goldbach2</i>	 <u>goldbach2</u>	5.3b, (Prob) Prime Testing
<i>primes2</i>	 <u>primes2</u>	5.3b, (Prob) Prime Testing
<i>pseudoprime</i>	 <u>pseudoprime</u>	5.3b, (Prob) Prime Testing
<i>00583</i>	 <u>Prime Factors</u>	5.3c, Finding Prime Factors
<i>11466</i>	 <u>Largest Prime Divisor</u>	5.3c, Finding Prime Factors
<i>12703</i>	 <u>Little Rakin</u>	5.3c, Finding Prime Factors
<i>12805</i>	 <u>Raiders of the Lost Sign</u>	5.3c, Finding Prime Factors
<i>pascal</i>	 <u>pascal</u>	5.3c, Finding Prime Factors
<i>primalrepresentation</i>	 <u>primalrepresentation</u>	5.3c, Finding Prime Factors
<i>primereduction</i>	 <u>primereduction</u>	5.3c, Finding Prime Factors
<i>00294</i>	 <u>Divisors</u>	5.3d, Prime Factors Functions
<i>10179</i>	 <u>Irreducible Basic Fraction...</u>	5.3d, Prime Factors Functions
<i>11353</i>	 <u>A Different Kind of Sortin...</u>	5.3d, Prime Factors Functions
<i>11728</i>	 <u>Alternate Task</u>	5.3d, Prime Factors Functions
<i>almostperfect</i>	 <u>almostperfect</u>	5.3d, Prime Factors Functions
<i>divisors</i>	 <u>divisors</u>	5.3d, Prime Factors Functions
<i>relatives</i>	 <u>relatives</u>	5.3d, Prime Factors Functions
<i>10699</i>	 <u>Count the factors</u>	5.3e, Modified Sieve

Both OJ	Problem Title	CP4
10990	 Another New Function	5.3e, Modified Sieve
11426	 GCD - Extreme (II)	5.3e, Modified Sieve
12043	 Divisors	5.3e, Modified Sieve
data	 data	5.3e, Modified Sieve
farey	 farey	5.3e, Modified Sieve
nonprimefactors	 nonprimefactors	5.3e, Modified Sieve
10407	 Simple division	5.3f, GCD and/or LCM
10892	 LCM Cardinality	5.3f, GCD and/or LCM
11388	 GCD LCM	5.3f, GCD and/or LCM
11417	 GCD	5.3f, GCD and/or LCM
jackpot	 jackpot	5.3f, GCD and/or LCM
prsteni	 prsteni	5.3f, GCD and/or LCM
smallestmultiple	 smallestmultiple	5.3f, GCD and/or LCM
11076	 Add Again	5.3g, Factorial
12335	 Lexicographic Order	5.3g, Factorial
12869	 Zeroes	5.3g, Factorial
inversefactorial	 inversefactorial	5.3g, Factorial
loworderzeros	 loworderzeros	5.3g, Factorial
namethatpermutation	 namethatpermutation	5.3g, Factorial
tutorial	 tutorial	5.3g, Factorial
10680	 LCM	5.3h, Working with PFs
11347	 Multifactorials	5.3h, Working with PFs
11395	 Sigma Function	5.3h, Working with PFs
consecutivesums	 consecutivesums	5.3h, Working with PFs

Both OJ	Problem Title	CP4
<i>factovisors</i>	 <u>factovisors</u>	5.3h, Working with PFs
<i>fundamentalneighbors</i>	 <u>fundamentalneighbors</u>	5.3h, Working with PFs
<i>iks</i>	 <u>iks</u>	5.3h, Working with PFs
10174	 <u>Couple-Bachelor-Spinster N...</u>	5.3i, Modular Arithmetic
10176	 <u>Ocean Deep! - Make it shal...</u>	5.3i, Modular Arithmetic
10212	 <u>The Last Non-zero Digit.</u>	5.3i, Modular Arithmetic
10489	 <u>Boxes of Chocolates</u>	5.3i, Modular Arithmetic
<i>anothercandies</i>	 <u>anothercandies</u>	5.3i, Modular Arithmetic
<i>ones</i>	 <u>ones</u>	5.3i, Modular Arithmetic
<i>threedigits</i>	 <u>threedigits</u>	5.3i, Modular Arithmetic
10090	 <u>Marbles</u>	5.3j, Extended Euclid
10104	 <u>Euclid Problem</u>	5.3j, Extended Euclid
10633	 <u>Rare Easy Problem</u>	5.3j, Extended Euclid
10673	 <u>Play with Floor and Ceil</u>	5.3j, Extended Euclid
<i>candydistribution</i>	 <u>candydistribution</u>	5.3j, Extended Euclid
<i>modulararithmetic</i>	 <u>modulararithmetic</u>	5.3j, Extended Euclid
<i>soyoulikeyourfoodhot</i>	 <u>soyoulikeyourfoodhot</u>	5.3j, Extended Euclid
10922	 <u>2 the 9s</u>	5.3k, Divisibility Test
10929	 <u>You can say 11</u>	5.3k, Divisibility Test
11344	 <u>The Huge One</u>	5.3k, Divisibility Test
11371	 <u>Number Theory for Newbies</u>	5.3k, Divisibility Test
<i>divisible</i>	 <u>divisible</u>	5.3k, Divisibility Test
<i>meowfactor</i>	 <u>meowfactor</u>	5.3k, Divisibility Test
<i>thinkingofanumber</i>	 <u>thinkingofanumber</u>	5.3k, Divisibility Test

Both OJ	Problem Title	CP4
00495	 Fibonacci Freeze	5.4a, Fibonacci Numbers
00763	 Fibinary Numbers	5.4a, Fibonacci Numbers
10334	 Ray Through Glasses	5.4a, Fibonacci Numbers
10689	 Yet another Number Sequenc...	5.4a, Fibonacci Numbers
anti11	 anti11	5.4a, Fibonacci Numbers
batmanacci	 batmanacci	5.4a, Fibonacci Numbers
rijeci	 rijeci	5.4a, Fibonacci Numbers
00369	 Combinations	5.4b, Binomial Coefficients
10541	 Stripe	5.4b, Binomial Coefficients
11955	 Binomial Theorem	5.4b, Binomial Coefficients
12712	 Pattern Locker	5.4b, Binomial Coefficients
election	 election	5.4b, Binomial Coefficients
lockedtreasure	 lockedtreasure	5.4b, Binomial Coefficients
oddbinom	 oddbinom	5.4b, Binomial Coefficients
00991	 Safe Salutations	5.4c, Catalan Numbers
10007	 Count the Trees	5.4c, Catalan Numbers
10223	 How many nodes ?	5.4c, Catalan Numbers
10312	 Expression Bracketing.	5.4c, Catalan Numbers
catalan	 catalan	5.4c, Catalan Numbers
catalansquare	 catalansquare	5.4c, Catalan Numbers
fiat	 fiat	5.4c, Catalan Numbers
11310	 Delivery Debacle	5.4d, Others, Easier
11401	 Triangle Counting.	5.4d, Others, Easier
11597	 Spanning Subtree	5.4d, Others, Easier

Both OJ	Problem Title	CP4
12463	 Little Nephew	5.4d, Others, Easier
character	 character	5.4d, Others, Easier
honey	 honey	5.4d, Others, Easier
integerdivision	 integerdivision	5.4d, Others, Easier
01224	 Tile Code	5.4e, Others, Harder
10784	 Diagonal	5.4e, Others, Harder
11069	 A Graph Problem	5.4e, Others, Harder
11538	 Chess Queen	5.4e, Others, Harder
anagramcounting	 anagramcounting	5.4e, Others, Harder
incognito	 incognito	5.4e, Others, Harder
tritiling	 tritiling	5.4e, Others, Harder
01636	 Headshot	5.5a, Probability, Easier
10238	 Throw the Dice	5.5a, Probability, Easier
10491	 Cows and Cars	5.5a, Probability, Easier
11181	 Probability Given	5.5a, Probability, Easier
bobby	 bobby	5.5a, Probability, Easier
dicebetting	 dicebetting	5.5a, Probability, Easier
odds	 odds	5.5a, Probability, Easier
10056	 What is the Probability?	5.5b, Probability, Harder
10648	 Chocolate Box	5.5b, Probability, Harder
11176	 Winning Streak	5.5b, Probability, Harder
11628	 Another lottery	5.5b, Probability, Harder
anthony	 anthony	5.5b, Probability, Harder
goodcoalition	 goodcoalition	5.5b, Probability, Harder

Both OJ	Problem Title	CP4
<i>lostinthewoods</i>	 lostinthewoods	5.5b, Probability, Harder
<i>00350</i>	 Pseudo-Random Numbers	5.6a, Cycle Finding
<i>11036</i>	 Eventually Periodic Sequen...	5.6a, Cycle Finding
<i>11053</i>	 Flavius Josephus Reloaded	5.6a, Cycle Finding
<i>11511</i>	 Frieze Patterns	5.6a, Cycle Finding
<i>fibonaccicycles</i>	 fibonaccicycles	5.6a, Cycle Finding
<i>rats</i>	 rats	5.6a, Cycle Finding
<i>10111</i>	 Find the Winning Move	5.7a, Game Theory (Basic)
<i>10536</i>	 Game of Euler	5.7a, Game Theory (Basic)
<i>11489</i>	 Integer Game	5.7a, Game Theory (Basic)
<i>bachetsgame</i>	 bachetsgame	5.7a, Game Theory (Basic)
<i>blockgame2</i>	 blockgame2	5.7a, Game Theory (Basic)
<i>euclidsgame</i>	 euclidsgame	5.7a, Game Theory (Basic)
<i>linije</i>	 linije	5.7a, Game Theory (Basic)
<i>10229</i>	 Modular Fibonacci	5.8a, Matrix Power
<i>10655</i>	 Contemplation! Algebra	5.8a, Matrix Power
<i>11582</i>	 Colossal Fibonacci Numbers...	5.8a, Matrix Power
<i>12796</i>	 Teletransport	5.8a, Matrix Power
<i>checkingforcorrectness</i>	 checkingforcorrectness	5.8a, Matrix Power
<i>porpoises</i>	 porpoises	5.8a, Matrix Power
<i>squawk</i>	 squawk	5.8a, Matrix Power

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