



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: All

Number of problems shown (initially in CP4 order): 551

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.

























Show entries

























Search:

























Both OJ	Problem Title	CP4
01315	 Crazy tea party	5.2a, Finding Formula, Easier
10014	 Simple calculations	5.2a, Finding Formula, Easier
10110	 Light, more light	5.2a, Finding Formula, Easier

























Both OJ	Problem Title	CP4
10170	 The Hotel with Infinite Ro...	5.2a, Finding Formula, Easier
10499	 The Land of Justice	5.2a, Finding Formula, Easier
10696	 f91	5.2a, Finding Formula, Easier
10751	 Chessboard	5.2a, Finding Formula, Easier
10773	 Back to Intermediate Math	5.2a, Finding Formula, Easier
10940	 Throwing cards away II	5.2a, Finding Formula, Easier
11202	 The least possible effort	5.2a, Finding Formula, Easier
11393	 Tri-Isomorphism	5.2a, Finding Formula, Easier
12004	 Bubble Sort	5.2a, Finding Formula, Easier
12027	 Very Big Perfect Squares	5.2a, Finding Formula, Easier
12502	 Three Families	5.2a, Finding Formula, Easier
12725	 Fat and Orial	5.2a, Finding Formula, Easier
12918	 Lucky Thief	5.2a, Finding Formula, Easier
12992	 Huatuo's Medicine	5.2a, Finding Formula, Easier
13049	 Combination Lock	5.2a, Finding Formula, Easier
13071	 Double decker	5.2a, Finding Formula, Easier
13216	 Problem with a ridiculousl...	5.2a, Finding Formula, Easier
alloys	 alloys	5.2a, Finding Formula, Easier
averageeasy	 averageeasy	5.2a, Finding Formula, Easier
averageshard	 averageshard	5.2a, Finding Formula, Easier
bishops	 bishops	5.2a, Finding Formula, Easier
chanukah	 chanukah	5.2a, Finding Formula, Easier
crne	 crne	5.2a, Finding Formula, Easier
electricaloutlets	 electricaloutlets	5.2a, Finding Formula, Easier

























Both OJ	Problem Title	CP4
lastminute	 lastminute	5.2a, Finding Formula, Easier
limbo1	 limbo1	5.2a, Finding Formula, Easier
malfunctioningrobot	 malfunctioningrobot	5.2a, Finding Formula, Easier
pauleigon	 pauleigon	5.2a, Finding Formula, Easier
sequentialmanufacturing	 sequentialmanufacturing	5.2a, Finding Formula, Easier
soylent	 soylent	5.2a, Finding Formula, Easier
sumkindofproblem	 sumkindofproblem	5.2a, Finding Formula, Easier
<i>twostones</i>	 twostones	<i>5.2a, Finding Formula, Easier</i>
00651	 Deck	5.2b, Finding Formula, Harder
00913	 Joana and the Odd Numbers	5.2b, Finding Formula, Harder
<i>10161</i>	 Ant on a Chessboard	<i>5.2b, Finding Formula, Harder</i>
10257	 Dick and Jane	5.2b, Finding Formula, Harder
10493	 Cats, with or without Hats	5.2b, Finding Formula, Harder
10509	 R U Kidding Mr. Feynman?	5.2b, Finding Formula, Harder
10666	 The Eurocup is Here!	5.2b, Finding Formula, Harder
10693	 Traffic Volume	5.2b, Finding Formula, Harder
10710	 Chinese Shuffle	5.2b, Finding Formula, Harder
10882	 Koerner's Pub	5.2b, Finding Formula, Harder
10970	 Big Chocolate	5.2b, Finding Formula, Harder
10994	 Simple Addition	5.2b, Finding Formula, Harder
<i>11038</i>	 How Many O's?	<i>5.2b, Finding Formula, Harder</i>
11170	 Cos(NA).	5.2b, Finding Formula, Harder
<i>11231</i>	 Black and white painting.	<i>5.2b, Finding Formula, Harder</i>
11246	 K-Multiple Free set	5.2b, Finding Formula, Harder

























Both OJ	Problem Title	CP4
11296	 Counting Solutions to an I...	5.2b, Finding Formula, Harder
11298	 Dissecting a Hexagon	5.2b, Finding Formula, Harder
11387	 The 3-Regular Graph	5.2b, Finding Formula, Harder
11718	 <i>Fantasy of a Summation</i>	5.2b, Finding Formula, Harder
12909	 Numeric Center	5.2b, Finding Formula, Harder
13096	 Standard Deviation	5.2b, Finding Formula, Harder
13140	 Squares, Lists and Digital...	5.2b, Finding Formula, Harder
appallingarchitecture	 appallingarchitecture	5.2b, Finding Formula, Harder
beautifulprimes	 beautifulprimes	5.2b, Finding Formula, Harder
dickandjane	 dickandjane	5.2b, Finding Formula, Harder
doorman	 doorman	5.2b, Finding Formula, Harder
eatingout	 eatingout	5.2b, Finding Formula, Harder
limbo2	 limbo2	5.2b, Finding Formula, Harder
loorolls	 loorolls	5.2b, Finding Formula, Harder
mortgage	 <i>mortgage</i>	5.2b, Finding Formula, Harder
neighborhoodwatch	 <i>neighborhoodwatch</i>	5.2b, Finding Formula, Harder
nine	 <i>nine</i>	5.2b, Finding Formula, Harder
pleasegofirst	 pleasegofirst	5.2b, Finding Formula, Harder
pyramidkonstruktion	 pyramidkonstruktion	5.2b, Finding Formula, Harder
rectangularspiral	 rectangularspiral	5.2b, Finding Formula, Harder
sequence	 sequence	5.2b, Finding Formula, Harder
00290	 Palindroms <---> smordnila...	5.2c, Base Number Conversion
00343	 <i>What Base Is This?</i>	5.2c, Base Number Conversion
00355	 The Bases Are Loaded	5.2c, Base Number Conversion

























Both OJ	Problem Title	CP4
00389	 Basically Speaking	5.2c, Base Number Conversion
00446	 Kibbles "n" Bits "n" Bits ...	5.2c, Base Number Conversion
10473	 Simple Base Conversion	5.2c, Base Number Conversion
10551	 Basic Remains	5.2c, Base Number Conversion
11185	 Ternary	5.2c, Base Number Conversion
11952	 Arithmetic	5.2c, Base Number Conversion
allaboutthatbase	 allaboutthatbase	5.2c, Base Number Conversion
arithmetic	 arithmetic	5.2c, Base Number Conversion
arithmeticdecoding	 arithmeticdecoding	5.2c, Base Number Conversion
basicremains	 basicremains	5.2c, Base Number Conversion
oktalni	 oktalni	5.2c, Base Number Conversion
whichbase	 whichbase	5.2c, Base Number Conversion
00377	 Cowculations	5.2d, Base Number Variants
00575	 Skew Binary	5.2d, Base Number Variants
00636	 Squares (III)	5.2d, Base Number Variants
10093	 An Easy Problem!	5.2d, Base Number Variants
10677	 Base Equality	5.2d, Base Number Variants
10931	 Parity	5.2d, Base Number Variants
11005	 Cheapest Base	5.2d, Base Number Variants
11121	 Base -2	5.2d, Base Number Variants
11398	 The Base-1 Number System	5.2d, Base Number Variants
12602	 Nice Licence Plates	5.2d, Base Number Variants
aliennumbers	 aliennumbers	5.2d, Base Number Variants
babylonian	 babylonian	5.2d, Base Number Variants

























Both OJ	Problem Title	CP4
basic	 basic	5.2d, Base Number Variants
crypto	 crypto	5.2d, Base Number Variants
ignore	 ignore	5.2d, Base Number Variants
mixedbasearithmetic	 mixedbasearithmetic	5.2d, Base Number Variants
parsinghex	 parsinghex	5.2d, Base Number Variants
sumsquaredigits	 sumsquaredigits	5.2d, Base Number Variants
00136	 Ugly Numbers	5.2e, Number Systems/Seqs
00138	 Street Numbers	5.2e, Number Systems/Seqs
00413	 Up and Down Sequences	5.2e, Number Systems/Seqs
00443	 Humble Numbers	5.2e, Number Systems/Seqs
00640	 Self Numbers	5.2e, Number Systems/Seqs
00694	 The Collatz Sequence	5.2e, Number Systems/Seqs
00927	 Integer Sequences from Add...	5.2e, Number Systems/Seqs
00962	 Taxicab Numbers	5.2e, Number Systems/Seqs
00974	 Kaprekar Numbers	5.2e, Number Systems/Seqs
10006	 Carmichael Numbers	5.2e, Number Systems/Seqs
10042	 Smith Numbers	5.2e, Number Systems/Seqs
10049	 Self-describing Sequence	5.2e, Number Systems/Seqs
10101	 Bangla Numbers	5.2e, Number Systems/Seqs
10408	 Farey sequences	5.2e, Number Systems/Seqs
10930	 A-Sequence	5.2e, Number Systems/Seqs
11028	 Sum of Product	5.2e, Number Systems/Seqs
11063	 B2-Sequence	5.2e, Number Systems/Seqs
11461	 Square Numbers	5.2e, Number Systems/Seqs

























Both OJ	Problem Title	CP4
11660	 Look-and-Say sequences	5.2e, Number Systems/Seqs
11970	 Lucky Numbers	5.2e, Number Systems/Seqs
12149	 Feynman	5.2e, Number Systems/Seqs
12751	 An Interesting Game	5.2e, Number Systems/Seqs
13161	 Candle Box	5.2e, Number Systems/Seqs
candlebox	 candlebox	5.2e, Number Systems/Seqs
collatz	 collatz	5.2e, Number Systems/Seqs
hailstone	 hailstone	5.2e, Number Systems/Seqs
permutedarithmeticsequence	 permutedarithmeticsequence	5.2e, Number Systems/Seqs
rationalsequence	 rationalsequence	5.2e, Number Systems/Seqs
sheldon	 sheldon	5.2e, Number Systems/Seqs
00107	 The Cat in the Hat	5.2f, Log, Exp, Pow
00113	 Power of Cryptography	5.2f, Log, Exp, Pow
00474	 Heads / Tails Probability	5.2f, Log, Exp, Pow
00545	 Heads	5.2f, Log, Exp, Pow
00701	 The Archeologists' Dilemma	5.2f, Log, Exp, Pow
10916	 Factstone Benchmark	5.2f, Log, Exp, Pow
11384	 Help is needed for Dexter	5.2f, Log, Exp, Pow
11556	 Best Compression Ever	5.2f, Log, Exp, Pow
11636	 Hello World!	5.2f, Log, Exp, Pow
11666	 Logarithms	5.2f, Log, Exp, Pow
11714	 Blind Sorting	5.2f, Log, Exp, Pow
11847	 Cut the Silver Bar	5.2f, Log, Exp, Pow
11986	 Save from Radiation	5.2f, Log, Exp, Pow

























Both OJ	Problem Title	CP4
12416	 Excessive Space Remover	5.2f, Log, Exp, Pow
3dprinter	 3dprinter	5.2f, Log, Exp, Pow
bestcompression	 bestcompression	5.2f, Log, Exp, Pow
bus	 bus	5.2f, Log, Exp, Pow
cokolada	 cokolada	5.2f, Log, Exp, Pow
differentdistances	 differentdistances	5.2f, Log, Exp, Pow
factstone	 factstone	5.2f, Log, Exp, Pow
lemonadetrade	 lemonadetrade	5.2f, Log, Exp, Pow
pot	 pot	5.2f, Log, Exp, Pow
schoolspirit	 schoolspirit	5.2f, Log, Exp, Pow
slatkisi	 slatkisi	5.2f, Log, Exp, Pow
stirlingsapproximation	 stirlingsapproximation	5.2f, Log, Exp, Pow
tetration	 tetration	5.2f, Log, Exp, Pow
thebackslashproblem	 thebackslashproblem	5.2f, Log, Exp, Pow
triangle	 triangle	5.2f, Log, Exp, Pow
00121	 Pipe Fitters	5.2g, Grid
00264	 Count on Cantor	5.2g, Grid
00808	 Bee Breeding	5.2g, Grid
00880	 Cantor Fractions	5.2g, Grid
10022	 Delta-wave	5.2g, Grid
10182	 Bee Maja	5.2g, Grid
10233	 Dermuba Triangle	5.2g, Grid
10620	 A Flea on a Chessboard	5.2g, Grid
10642	 Can You Solve It?	5.2g, Grid

























Both OJ	Problem Title	CP4
10964	 Strange Planet	5.2g, Grid
12705	 Breaking Board	5.2g, Grid
<i>beehouseperimeter</i>	 beehouseperimeter	5.2g, Grid
fleaonachessboard	 fleaonachessboard	5.2g, Grid
<i>honeyheist</i>	 honeyheist	5.2g, Grid
<i>maptiles2</i>	 maptiles2	5.2g, Grid
settlers2	 settlers2	5.2g, Grid
00126	 The Errant Physicist	5.2h, Polynomial
00392	 Polynomial Showdown	5.2h, Polynomial
00498	 Polly the Polynomial	5.2h, Polynomial
<i>00930</i>	 Polynomial Roots	5.2h, Polynomial
10215	 The Largest/Smallest Box	5.2h, Polynomial
<i>10268</i>	 498-bis	5.2h, Polynomial
<i>10302</i>	 Summation of Polynomials	5.2h, Polynomial
10326	 The Polynomial Equation	5.2h, Polynomial
<i>10586</i>	 Polynomial Remains	5.2h, Polynomial
10719	 Quotient Polynomial	5.2h, Polynomial
<i>ada</i>	 ada	5.2h, Polynomial
<i>curvyblocks</i>	 curvyblocks	5.2h, Polynomial
<i>hammingellipses</i>	 hammingellipses	5.2h, Polynomial
<i>plot</i>	 plot	5.2h, Polynomial
polymul1	 polymul1	5.2h, Polynomial
<i>00332</i>	 Rational Numbers from Repe...	5.2i, Fractions
<i>00834</i>	 Continued Fractions	5.2i, Fractions

























Both OJ	Problem Title	CP4
10555	 Dead Fraction	5.2i, Fractions
10814	 Simplifying Fractions	5.2i, Fractions
10976	 Fractions Again?!	5.2i, Fractions
12068	 Harmonic Mean	5.2i, Fractions
12848	 In Puzzleland (IV)	5.2i, Fractions
12970	 Alcoholic Pilots	5.2i, Fractions
bestrational	 bestrational	5.2i, Fractions
deadfraction	 deadfraction	5.2i, Fractions
fraction	 fraction	5.2i, Fractions
fractionallotion	 fractionallotion	5.2i, Fractions
jointattack	 jointattack	5.2i, Fractions
mixedfractions	 mixedfractions	5.2i, Fractions
rationalarithmetic	 rationalarithmetic	5.2i, Fractions
rationalratio	 rationalratio	5.2i, Fractions
temperatureconfusion	 temperatureconfusion	5.2i, Fractions
thermostat	 thermostat	5.2i, Fractions
00276	 Egyptian Multiplication	5.2j, Really Ad Hoc
00496	 Simply Subsets	5.2j, Really Ad Hoc
00613	 Numbers That Count	5.2j, Really Ad Hoc
10023	 Square root	5.2j, Really Ad Hoc
10137	 The Trip	5.2j, Really Ad Hoc
10190	 Divide, But Not Quite Cong...	5.2j, Really Ad Hoc
11042	 Complex, difficult and com...	5.2j, Really Ad Hoc
11055	 Homogeneous squares	5.2j, Really Ad Hoc

























Both OJ	Problem Title	CP4
11241	 Humidex	5.2j, Really Ad Hoc
11526	 H(n)	5.2j, Really Ad Hoc
11715	 Car	5.2j, Really Ad Hoc
11816	 HST	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
00406	 Prime Cuts	5.3a, Prime Numbers
00543	 Goldbach's Conjecture	5.3a, Prime Numbers
00686	 Goldbach's Conjecture (II)	5.3a, Prime Numbers
00897	 Anagrammatic Primes	5.3a, Prime Numbers
00914	 Jumping Champion	5.3a, Prime Numbers
01644	 Prime Gap	5.3a, Prime Numbers
10140	 Prime Distance	5.3a, Prime Numbers
10168	 Summation of Four Primes	5.3a, Prime Numbers
10311	 Goldbach and Euler	5.3a, Prime Numbers
10394	 Twin Primes	5.3a, Prime Numbers
10490	 Mr. Azad and his Son!!!!	5.3a, Prime Numbers
10650	 Determinate Prime	5.3a, Prime Numbers
10852	 Less Prime	5.3a, Prime Numbers
10948	 The primary problem	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
00960	 <u>Gaussian Primes</u>	5.3b, (Prob) Prime Testing
01180	 <u>Perfect Numbers</u>	5.3b, (Prob) Prime Testing
01210	 <u>Sum of Consecutive Prime N...</u>	5.3b, (Prob) Prime Testing
10235	 <u>Simply Emirp</u>	5.3b, (Prob) Prime Testing
10924	 <u>Prime Words</u>	5.3b, (Prob) Prime Testing
11287	 <u>Pseudoprime Numbers</u>	5.3b, (Prob) Prime Testing
12542	 <u>Prime Substring</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
00516	 <u>Prime Land</u>	5.3c, Finding Prime Factors
00583	 <u>Prime Factors</u>	5.3c, Finding Prime Factors
10392	 <u>Factoring Large Numbers</u>	5.3c, Finding Prime Factors
11466	 <u>Largest Prime Divisor</u>	5.3c, Finding Prime Factors
12703	 <u>Little Rakin</u>	5.3c, Finding Prime Factors
12805	 <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
00294	 <u>Divisors</u>	5.3d, Prime Factors Functions
00884	 <u>Factorial Factors</u>	5.3d, Prime Factors Functions

























Both OJ	Problem Title	CP4
01246	 Find Terrorists	5.3d, Prime Factors Functions
10179	 Irreducible Basic Fraction...	5.3d, Prime Factors Functions
10290	 {Sum += i ++} to Reach N	5.3d, Prime Factors Functions
10299	 Relatives	5.3d, Prime Factors Functions
10820	 Send a Table	5.3d, Prime Factors Functions
10958	 How Many Solutions?	5.3d, Prime Factors Functions
11064	 Number Theory	5.3d, Prime Factors Functions
11086	 Composite Prime	5.3d, Prime Factors Functions
11226	 Reaching the fix-point.	5.3d, Prime Factors Functions
11353	 A Different Kind of Sortin...	5.3d, Prime Factors Functions
11728	 Alternate Task	5.3d, Prime Factors Functions
12005	 Find Solutions	5.3d, Prime Factors Functions
13185	 DPA Numbers I	5.3d, Prime Factors Functions
13194	 DPA Numbers II	5.3d, Prime Factors Functions
almostperfect	 almostperfect	5.3d, Prime Factors Functions
divisors	 divisors	5.3d, Prime Factors Functions
listgame	 listgame	5.3d, Prime Factors Functions
relatives	 relatives	5.3d, Prime Factors Functions
10699	 Count the factors	5.3e, Modified Sieve
10738	 Riemann vs Mertens	5.3e, Modified Sieve
10990	 Another New Function	5.3e, Modified Sieve
11327	 Enumerating Rational Numbe...	5.3e, Modified Sieve
11426	 GCD - Extreme (II)	5.3e, Modified Sieve
12043	 Divisors	5.3e, Modified Sieve

























Both OJ	Problem Title	CP4
<i>data</i>	 <i>data</i>	5.3e, Modified Sieve
<i>farey</i>	 <i>farey</i>	5.3e, Modified Sieve
<i>nonprimefactors</i>	 <i>nonprimefactors</i>	5.3e, Modified Sieve
00106	 Fermat vs. Pythagoras	5.3f, GCD and/or LCM
00412	 Pi	5.3f, GCD and/or LCM
10193	 All You Need Is Love	5.3f, GCD and/or LCM
<i>10407</i>	 <i>Simple division</i>	5.3f, GCD and/or LCM
<i>10892</i>	 <i>LCM Cardinality</i>	5.3f, GCD and/or LCM
<i>11388</i>	 <i>GCD LCM</i>	5.3f, GCD and/or LCM
<i>11417</i>	 <i>GCD</i>	5.3f, GCD and/or LCM
11774	 Doom's Day	5.3f, GCD and/or LCM
11827	 Maximum GCD	5.3f, GCD and/or LCM
12708	 GCD The Largest	5.3f, GCD and/or LCM
12852	 The Miser's Puzzle	5.3f, GCD and/or LCM
<i>dasblinkenlights</i>	 <i>dasblinkenlights</i>	5.3f, GCD and/or LCM
<i>doodling</i>	 <i>doodling</i>	5.3f, GCD and/or LCM
<i>jackpot</i>	 <i>jackpot</i>	5.3f, GCD and/or LCM
<i>locustlocus</i>	 <i>locustlocus</i>	5.3f, GCD and/or LCM
<i>prsteni</i>	 <i>prsteni</i>	5.3f, GCD and/or LCM
<i>smallestmultiple</i>	 <i>smallestmultiple</i>	5.3f, GCD and/or LCM
00324	 Factorial Frequencies	5.3g, Factorial
00568	 Just the Facts	5.3g, Factorial
00623	 500!	5.3g, Factorial
10220	 I Love Big Numbers !	5.3g, Factorial

























Both OJ	Problem Title	CP4
10323	 Factorial! You Must be Kid...	5.3g, Factorial
10338	 Mischievous Children	5.3g, Factorial
11076	 Add Again	5.3g, Factorial
12335	 Lexicographic Order	5.3g, Factorial
12869	 Zeroes	5.3g, Factorial
12934	 Factorial Division	5.3g, Factorial
eulersnumber	 eulersnumber	5.3g, Factorial
howmanydigits	 howmanydigits	5.3g, Factorial
inversefactorial	 inversefactorial	5.3g, Factorial
loworderzeros	 loworderzeros	5.3g, Factorial
namethatpermutation	 namethatpermutation	5.3g, Factorial
tutorial	 tutorial	5.3g, Factorial
00160	 Factors and Factorials	5.3h, Working with PFs
00993	 Product of digits	5.3h, Working with PFs
10061	 How many zero's and how ma...	5.3h, Working with PFs
10139	 Factovisors	5.3h, Working with PFs
10484	 Divisibility of Factors	5.3h, Working with PFs
10527	 Persistent Numbers	5.3h, Working with PFs
10622	 Perfect P-th Powers	5.3h, Working with PFs
10680	 LCM	5.3h, Working with PFs
10780	 Again Prime? No Time.	5.3h, Working with PFs
10791	 Minimum Sum LCM	5.3h, Working with PFs
11347	 Multifactorials	5.3h, Working with PFs
11395	 Sigma Function	5.3h, Working with PFs

























Both OJ	Problem Title	CP4
11889	 Benefit	5.3h, Working with PFs
13067	 Prime Kebab Menu	5.3h, Working with PFs
<i>consecutivesums</i>	 consecutivesums	5.3h, Working with PFs
<i>factovisors</i>	 factovisors	5.3h, Working with PFs
<i>fundamentalneighbors</i>	 fundamentalneighbors	5.3h, Working with PFs
<i>iks</i>	 iks	5.3h, Working with PFs
<i>olderbrother</i>	 olderbrother	5.3h, Working with PFs
<i>parket</i>	 parket	5.3h, Working with PFs
<i>perfectpowers</i>	 perfectpowers	5.3h, Working with PFs
<i>persistent</i>	 persistent	5.3h, Working with PFs
00128	 Software CRC	5.3i, Modular Arithmetic
10127	 Ones	5.3i, Modular Arithmetic
10174	 Couple-Bachelor-Spinster N...	5.3i, Modular Arithmetic
10176	 Ocean Deep! - Make it shal...	5.3i, Modular Arithmetic
10212	 The Last Non-zero Digit.	5.3i, Modular Arithmetic
10489	 Boxes of Chocolates	5.3i, Modular Arithmetic
<i>anothercandies</i>	 anothercandies	5.3i, Modular Arithmetic
<i>modulo</i>	 modulo	5.3i, Modular Arithmetic
<i>ones</i>	 ones	5.3i, Modular Arithmetic
<i>threedigits</i>	 threedigits	5.3i, Modular Arithmetic
<i>vauvau</i>	 vauvau	5.3i, Modular Arithmetic
10090	 Marbles	5.3j, Extended Euclid
10104	 Euclid Problem	5.3j, Extended Euclid
10633	 Rare Easy Problem	5.3j, Extended Euclid

























Both OJ	Problem Title	CP4
10673	 Play with Floor and Ceil	5.3j, Extended Euclid
candydistribution	 candydistribution	5.3j, Extended Euclid
jughard	 jughard	5.3j, Extended Euclid
modulararithmetic	 modulararithmetic	5.3j, Extended Euclid
soyoulikeyourfoodhot	 soyoulikeyourfoodhot	5.3j, Extended Euclid
10922	 2 the 9s	5.3k, Divisibility Test
10929	 You can say 11	5.3k, Divisibility Test
11344	 The Huge One	5.3k, Divisibility Test
11371	 Number Theory for Newbies	5.3k, Divisibility Test
divisible	 divisible	5.3k, Divisibility Test
jazzitup	 jazzitup	5.3k, Divisibility Test
magical3	 magical3	5.3k, Divisibility Test
meowfactor	 meowfactor	5.3k, Divisibility Test
shortcut	 shortcut	5.3k, Divisibility Test
thinkingofanumber	 thinkingofanumber	5.3k, Divisibility Test
00495	 Fibonacci Freeze	5.4a, Fibonacci Numbers
00580	 Critical Mass	5.4a, Fibonacci Numbers
00763	 Fibinary Numbers	5.4a, Fibonacci Numbers
00900	 Brick Wall Patterns	5.4a, Fibonacci Numbers
00948	 Fibonaccimal Base	5.4a, Fibonacci Numbers
01258	 Nowhere Money	5.4a, Fibonacci Numbers
10183	 How Many Fibs?	5.4a, Fibonacci Numbers
10334	 Ray Through Glasses	5.4a, Fibonacci Numbers
10450	 World Cup Noise	5.4a, Fibonacci Numbers

























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10497	 Sweet Child Makes Trouble	5.4a, Fibonacci Numbers
10579	 Fibonacci Numbers	5.4a, Fibonacci Numbers
10689	 Yet another Number Sequenc...	5.4a, Fibonacci Numbers
10862	 Connect the Cable Wires	5.4a, Fibonacci Numbers
11000	 Bee	5.4a, Fibonacci Numbers
11089	 Fi-binary Number	5.4a, Fibonacci Numbers
11161	 Help My Brother (II)	5.4a, Fibonacci Numbers
11780	 Miles 2 Km	5.4a, Fibonacci Numbers
12281	 Hyper Box	5.4a, Fibonacci Numbers
12620	 Fibonacci Sum	5.4a, Fibonacci Numbers
<i>anti11</i>	 anti11	5.4a, Fibonacci Numbers
<i>batmanacci</i>	 batmanacci	5.4a, Fibonacci Numbers
<i>rijeći</i>	 rijeći	5.4a, Fibonacci Numbers
00326	 Extrapolation Using a Diff...	5.4b, Binomial Coefficients
00369	 Combinations	5.4b, Binomial Coefficients
00485	 Pascal's Triangle of Death	5.4b, Binomial Coefficients
00530	 Binomial Showdown	5.4b, Binomial Coefficients
00911	 Multinomial Coefficients	5.4b, Binomial Coefficients
10105	 Polynomial Coefficients	5.4b, Binomial Coefficients
10375	 Choose and divide	5.4b, Binomial Coefficients
10532	 Combination! Once Again	5.4b, Binomial Coefficients
10541	 Stripe	5.4b, Binomial Coefficients
11955	 Binomial Theorem	5.4b, Binomial Coefficients
12712	 Pattern Locker	5.4b, Binomial Coefficients





















Both OJ	Problem Title	CP4
<i>election</i>	 election	5.4b, Binomial Coefficients
<i>insert</i>	 insert	5.4b, Binomial Coefficients
<i>lockedtreasure</i>	 lockedtreasure	5.4b, Binomial Coefficients
<i>oddbinom</i>	 oddbinom	5.4b, Binomial Coefficients
<i>perica</i>	 perica	5.4b, Binomial Coefficients
<i>00991</i>	 Safe Salutations	5.4c, Catalan Numbers
<i>10007</i>	 Count the Trees	5.4c, Catalan Numbers
<i>10223</i>	 How many nodes ?	5.4c, Catalan Numbers
<i>10303</i>	 How Many Trees?	5.4c, Catalan Numbers
<i>10312</i>	 Expression Bracketing.	5.4c, Catalan Numbers
<i>10643</i>	 Facing Problem With Trees	5.4c, Catalan Numbers
<i>catalan</i>	 catalan	5.4c, Catalan Numbers
<i>catalansquare</i>	 catalansquare	5.4c, Catalan Numbers
<i>fiat</i>	 fiat	5.4c, Catalan Numbers
<i>10079</i>	 Pizza Cutting	5.4d, Others, Easier
<i>11115</i>	 Uncle Jack	5.4d, Others, Easier
<i>11310</i>	 Delivery Debacle	5.4d, Others, Easier
<i>11401</i>	 Triangle Counting.	5.4d, Others, Easier
<i>11480</i>	 Jimmy's Balls	5.4d, Others, Easier
<i>11597</i>	 Spanning Subtree	5.4d, Others, Easier
<i>11609</i>	 Teams	5.4d, Others, Easier
<i>12463</i>	 Little Nephew	5.4d, Others, Easier
<i>character</i>	 character	5.4d, Others, Easier
<i>honey</i>	 honey.	5.4d, Others, Easier

Both OJ	Problem Title	CP4
<i>integerdivision</i>	 <u>integerdivision</u>	5.4d, Others, Easier
00153	 <u>Permalex</u>	5.4e, Others, Harder
00941	 <u>Permutations</u>	5.4e, Others, Harder
01224	 <u>Tile Code</u>	5.4e, Others, Harder
10359	 <u>Tiling</u>	5.4e, Others, Harder
10733	 <u>The Colored Cubes</u>	5.4e, Others, Harder
10784	 <u>Diagonal</u>	5.4e, Others, Harder
10790	 <u>How Many Points of Interse...</u>	5.4e, Others, Harder
10918	 <u>Tri Tiling</u>	5.4e, Others, Harder
11069	 <u>A Graph Problem</u>	5.4e, Others, Harder
11204	 <u>Musical instruments</u>	5.4e, Others, Harder
11270	 <u>Tiling Dominoes</u>	5.4e, Others, Harder
11538	 <u>Chess Queen</u>	5.4e, Others, Harder
11554	 <u>Hapless Hedonism</u>	5.4e, Others, Harder
12001	 <u>UVa Panel Discussion</u>	5.4e, Others, Harder
12022	 <u>Ordering T-shirts</u>	5.4e, Others, Harder
<i>anagramcounting</i>	 <u>anagramcounting.</u>	5.4e, Others, Harder
<i>incognito</i>	 <u>incognito</u>	5.4e, Others, Harder
kitchencombinatorics	 <u>kitchencombinatorics</u>	5.4e, Others, Harder
<i>tritiling</i>	 <u>tritiling.</u>	5.4e, Others, Harder
01636	 <u>Headshot</u>	5.5a, Probability, Easier
10238	 <u>Throw the Dice</u>	5.5a, Probability, Easier
10328	 <u>Coin Toss</u>	5.5a, Probability, Easier
10491	 <u>Cows and Cars</u>	5.5a, Probability, Easier

Both OJ	Problem Title	CP4
10759	 Dice Throwing	5.5a, Probability, Easier
11181	 Probability Given	5.5a, Probability, Easier
12024	 Hats	5.5a, Probability, Easier
12114	 Bachelor Arithmetic	5.5a, Probability, Easier
12230	 Crossing Rivers	5.5a, Probability, Easier
12457	 Tennis contest	5.5a, Probability, Easier
12461	 Airplane	5.5a, Probability, Easier
bobby	 bobby	5.5a, Probability, Easier
deceptivedice	 deceptivedice	5.5a, Probability, Easier
dicebetting	 dicebetting	5.5a, Probability, Easier
dicegame	 dicegame	5.5a, Probability, Easier
expectedearnings	 expectedearnings	5.5a, Probability, Easier
odds	 odds	5.5a, Probability, Easier
orchard	 orchard	5.5a, Probability, Easier
password	 password	5.5a, Probability, Easier
secretsanta	 secretsanta	5.5a, Probability, Easier
00542	 France '98	5.5b, Probability, Harder
00557	 Burger	5.5b, Probability, Harder
10056	 What is the Probability ?	5.5b, Probability, Harder
10218	 Let's Dance !!!	5.5b, Probability, Harder
10648	 Chocolate Box	5.5b, Probability, Harder
10777	 God! Save me	5.5b, Probability, Harder
11021	 Tribles	5.5b, Probability, Harder
11176	 Winning Streak	5.5b, Probability, Harder

Both OJ	Problem Title	CP4
11346	 Probability	5.5b, Probability, Harder
11500	 Vampires	5.5b, Probability, Harder
11628	 Another lottery	5.5b, Probability, Harder
11762	 Race to 1	5.5b, Probability, Harder
2naire	 2naire	5.5b, Probability, Harder
anthony	 anthony	5.5b, Probability, Harder
bribe	 bribe	5.5b, Probability, Harder
genius	 genius	5.5b, Probability, Harder
gnollhypothesis	 gnollhypothesis	5.5b, Probability, Harder
goodcoalition	 goodcoalition	5.5b, Probability, Harder
lostinthewoods	 lostinthewoods	5.5b, Probability, Harder
pollygone	 pollygone	5.5b, Probability, Harder
00202	 Repeating Decimals	5.6a, Cycle Finding
00275	 Expanding Fractions	5.6a, Cycle Finding
00350	 Pseudo-Random Numbers	5.6a, Cycle Finding
00408	 Uniform Generator	5.6a, Cycle Finding
00547	 DDF	5.6a, Cycle Finding
00942	 Cyclic Numbers	5.6a, Cycle Finding
00944	 Happy Numbers	5.6a, Cycle Finding
10162	 Last Digit	5.6a, Cycle Finding
10515	 Powers Et Al.	5.6a, Cycle Finding
10591	 Happy Number	5.6a, Cycle Finding
11036	 Eventually Periodic Sequen...	5.6a, Cycle Finding
11053	 Flavius Josephus Reloaded	5.6a, Cycle Finding

Both OJ	Problem Title	CP4
11511	 Frieze Patterns	5.6a, Cycle Finding
11549	 Calculator Conundrum	5.6a, Cycle Finding
11634	 Generate random numbers	5.6a, Cycle Finding
12464	 Professor Lazy, Ph.D.	5.6a, Cycle Finding
13217	 Amazing Function	5.6a, Cycle Finding
cool1	 cool1	5.6a, Cycle Finding
<i>fibonaccicycles</i>	 fibonaccicycles	5.6a, Cycle Finding
happyprime	 happyprime	5.6a, Cycle Finding
<i>rats</i>	 rats	5.6a, Cycle Finding
00847	 A Multiplication Game	5.7a, Game Theory (Basic)
10111	 Find the Winning Move	5.7a, Game Theory (Basic)
10368	 Euclid's Game	5.7a, Game Theory (Basic)
10404	 Bachet's Game	5.7a, Game Theory (Basic)
10536	 Game of Euler	5.7a, Game Theory (Basic)
10578	 The Game of 31	5.7a, Game Theory (Basic)
11489	 Integer Game	5.7a, Game Theory (Basic)
12293	 Box Game	5.7a, Game Theory (Basic)
12469	 Stones	5.7a, Game Theory (Basic)
alexandbarb	 alexandbarb	5.7a, Game Theory (Basic)
amultiplicationgame	 amultiplicationgame	5.7a, Game Theory (Basic)
<i>bachetsgame</i>	 bachetsgame	5.7a, Game Theory (Basic)
<i>blockgame2</i>	 blockgame2	5.7a, Game Theory (Basic)
breakingbranches	 breakingbranches	5.7a, Game Theory (Basic)
cuttingbrownies	 cuttingbrownies	5.7a, Game Theory (Basic)

Both OJ	Problem Title	CP4
<i>euclidsgame</i>	 euclidsgame	<i>5.7a, Game Theory (Basic)</i>
<i>ivana</i>	 ivana	<i>5.7a, Game Theory (Basic)</i>
<i>joylessgame</i>	 joylessgame	<i>5.7a, Game Theory (Basic)</i>
<i>linije</i>	 linije	<i>5.7a, Game Theory (Basic)</i>
<i>peggamefortwo</i>	 peggamefortwo	<i>5.7a, Game Theory (Basic)</i>
00374	 Big Mod	<i>5.8a, Matrix Power</i>
01230	 MODEX	<i>5.8a, Matrix Power</i>
10229	 Modular Fibonacci	<i>5.8a, Matrix Power</i>
10518	 How Many Calls?	<i>5.8a, Matrix Power</i>
10655	 Contemplation! Algebra	<i>5.8a, Matrix Power</i>
10870	 Recurrences	<i>5.8a, Matrix Power</i>
11029	 Leading and Trailing	<i>5.8a, Matrix Power</i>
11486	 Finding Paths in Grid	<i>5.8a, Matrix Power</i>
11582	 Colossal Fibonacci Numbers...	<i>5.8a, Matrix Power</i>
12470	 Tribonacci	<i>5.8a, Matrix Power</i>
12796	 Teletransport	<i>5.8a, Matrix Power</i>
<i>checkingforcorrectness</i>	 checkingforcorrectness	<i>5.8a, Matrix Power</i>
<i>porpoises</i>	 porpoises	<i>5.8a, Matrix Power</i>
<i>powers</i>	 powers	<i>5.8a, Matrix Power</i>
<i>squawk</i>	 squawk	<i>5.8a, Matrix Power</i>

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