Home MtS Details Errata Repo



Competitive Programming







Methods to Solve (2000-present)

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

OJ: Both 🕶 , Topic: Chapter 3 🕶 , Quality: All 💌

Online Judge shown: Both

Problem topics shown: Chapter 3: Problem Solving Paradigms only

Problem Quality: All

Number of problems shown (initially in CP4 order): 603

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 All • entries		Search:
Both OJ	Problem Title	CP4
00165	Stamps Stamps	3.2a, Pre-calculate-able
00167	The Sultan's Successors	3.2a, Pre-calculate-able
00256	Quirksome Squares	3.2a, Pre-calculate-able

Both OJ	Problem Title	CP4
00347	entire Judge Run	3.2a, Pre-calculate-able
00750	8 Queens Chess Problem	3.2a, Pre-calculate-able
00861	Little Bishops	3.2a, Pre-calculate-able
10128	online Judge Queue	3.2a, Pre-calculate-able
10177	(2/3/4)-D Sqr/Rects/Cubes/	3.2a, Pre-calculate-able
10276	Hanoi Tower Troubles Again	3.2a, Pre-calculate-able
11085	Back to the 8-Queens	3.2a, Pre-calculate-able
4thought	4thought	3.2a, Pre-calculate-able
cardtrick2	<u>cardtrick2</u>	3.2a, Pre-calculate-able
chocolates	<u>chocolates</u>	3.2a, Pre-calculate-able
foolingaround	<u>foolingaround</u>	3.2a, Pre-calculate-able
gridmagic	<u>gridmagic</u>	3.2a, Pre-calculate-able
lastfactorialdigit	<u>lastfactorialdigit</u>	3.2a, Pre-calculate-able
luckynumber	<u>luckynumber</u>	3.2a, Pre-calculate-able
mancala	<u>mancala</u>	3.2a, Pre-calculate-able
primematrix	primematrix primematrix	3.2a, Pre-calculate-able
sgcoin	sgcoin sgcoin	3.2a, Pre-calculate-able
theplank	<u>theplank</u>	3.2a, Pre-calculate-able
00105	The Skyline Problem	3.2b, Iterative (Two Loops)
00592	Island of Logic	3.2b, Iterative (Two Loops)
00617	Nonstop Travel Nonstop Travel	3.2b, Iterative (Two Loops)
01260	Sales	3.2b, Iterative (Two Loops)
01588	Online Judge Kickdown	3.2b, Iterative (Two Loops)
10041	Vito's Family	3.2b, Iterative (Two Loops)

Both OJ	Problem Title	CP4
10487	Closest Sums	3.2b, Iterative (Two Loops)
10570	Meeting with Aliens	3.2b, Iterative (Two Loops)
10670	Work Reduction	3.2b, Iterative (Two Loops)
10730	Antiarithmetic?	3.2b, Iterative (Two Loops)
11242	Tour de France	3.2b, Iterative (Two Loops)
12205	Happy Telephones	3.2b, Iterative (Two Loops)
12488	Start Grid	3.2b, Iterative (Two Loops)
12583	Memory Overflow Memory Overflow	3.2b, Iterative (Two Loops)
13018	Dice Cup	3.2b, Iterative (Two Loops)
8queens	8queens	3.2b, Iterative (Two Loops)
antiarithmetic	<u>antiarithmetic</u>	3.2b, Iterative (Two Loops)
bestrelayteam	<u>bestrelayteam</u>	3.2b, Iterative (Two Loops)
bikegears	<u>bikegears</u>	3.2b, Iterative (Two Loops)
blackfriday	<u>blackfriday</u>	3.2b, Iterative (Two Loops)
closestsums	<u>closestsums</u>	3.2b, Iterative (Two Loops)
codeguessing	<u>codeguessing</u>	3.2b, Iterative (Two Loops)
golombrulers	golombrulers	3.2b, Iterative (Two Loops)
kafkaesque	<u>kafkaesque</u>	3.2b, Iterative (Two Loops)
liga	<u>liga</u>	3.2b, Iterative (Two Loops)
majstor	<u>majstor</u>	3.2b, Iterative (Two Loops)
missingnumber	<u>missingnumber</u>	3.2b, Iterative (Two Loops)
peg	<u>peg</u>	3.2b, Iterative (Two Loops)
pet	<u>pet</u>	3.2b, Iterative (Two Loops)
putovanje	<u>putovanje</u>	3.2b, Iterative (Two Loops)

Both OJ	Problem Title	CP4
reduction	reduction	3.2b, Iterative (Two Loops)
register	<u>register</u>	3.2b, Iterative (Two Loops)
smoothiestand	<u>smoothiestand</u>	3.2b, Iterative (Two Loops)
summertrip	<u>summertrip</u>	3.2b, Iterative (Two Loops)
telephones	<u>telephones</u>	3.2b, Iterative (Two Loops)
tourdefrance	<u>tourdefrance</u>	3.2b, Iterative (Two Loops)
00154	Recycling Recycling	3.2c, Three+ Nested Loops, E
00441	Dilling Judge Lotto	3.2c, Three+ Nested Loops, E
00626	Ecosystem	3.2c, Three+ Nested Loops, E
00703	Triple Ties: The Organizer	3.2c, Three+ Nested Loops, E
00735	Dart-a-Mania	3.2c, Three+ Nested Loops, E
10102	The path in the colored fi	3.2c, Three+ Nested Loops, E
10662	The Wedding	3.2c, Three+ Nested Loops, E
11059	Maximum Product	3.2c, Three+ Nested Loops, E
12498	Ant's Shopping Mall	3.2c, Three+ Nested Loops, E
12515	Online Judge Movie Police	3.2c, Three+ Nested Loops, E
12801	Grandpa Pepe's Pizza	3.2c, Three+ Nested Loops, E
12844	Outwitting the Weighing Ma	3.2c, Three+ Nested Loops, E
cinemaseating	cinemaseating	3.2c, Three+ Nested Loops, E
cudoviste	<u>cudoviste</u>	3.2c, Three+ Nested Loops, E
mathhomework	<u>mathhomework</u>	3.2c, Three+ Nested Loops, E
npuzzle	<u>mpuzzle</u>	3.2c, Three+ Nested Loops, E
patuljci	patuljci	3.2c, Three+ Nested Loops, E
radir	<u>radir</u>	3.2c, Three+ Nested Loops, E

Both OJ	Problem Title	CP4
safehouses	<u>safehouses</u>	3.2c, Three+ Nested Loops, E
set	<u>set</u>	3.2c, Three+ Nested Loops, E
triangledrama	<u>triangledrama</u>	3.2c, Three+ Nested Loops, E
00253	Cube painting	3.2d, Three+ Nested Loops, H
00296	Safebreaker	3.2d, Three+ Nested Loops, H
00386	Perfect Cubes	3.2d, Three+ Nested Loops, H
10360	Rat Attack	3.2d, Three+ Nested Loops, H
10365	Blocks	3.2d, Three+ Nested Loops, H
10483	The Sum Equals the Product	3.2d, Three+ Nested Loops, H
10502	Counting Rectangles	3.2d, Three+ Nested Loops, H
10660	Citizen attention offices	3.2d, Three+ Nested Loops, H
10973	Triangle Counting	3.2d, Three+ Nested Loops, H
11108	Tautology	3.2d, Three+ Nested Loops, H
11236	Grocery store	3.2d, Three+ Nested Loops, H
11342	Three-square	3.2d, Three+ Nested Loops, H
11548	Blackboard Bonanza	3.2d, Three+ Nested Loops, H
11565	Simple Equations	3.2d, Three+ Nested Loops, H
11804	Argentina Argentina	3.2d, Three+ Nested Loops, H
11959	Dice Dice	3.2d, Three+ Nested Loops, H
11975	Tele-loto	3.2d, Three+ Nested Loops, H
12337	Bob's Beautiful Balls	3.2d, Three+ Nested Loops, H
calculatingdartscores	<u>calculatingdartscores</u>	3.2d, Three+ Nested Loops, H
goblingardenguards	<u>goblingardenguards</u>	3.2d, Three+ Nested Loops, H
lektira	<u>lektira</u>	3.2d, Three+ Nested Loops, H

Both OJ	Problem Title	CP4
medals	<u>medals</u>	3.2d, Three+ Nested Loops, H
misa	<u>Misa</u> misa	3.2d, Three+ Nested Loops, H
tautology	<u>tautology</u>	3.2d, Three+ Nested Loops, H
00140	Bandwidth Online Judge Bandwidth	3.2e, Iterative (Permutation)
00146	ID Codes	3.2e, Iterative (Permutation)
00234	Switching Channels	3.2e, Iterative (Permutation)
00418	Molecules Molecules	3.2e, Iterative (Permutation)
01064	Network Network	3.2e, Iterative (Permutation)
01209	Wordfish Wordfish	3.2e, Iterative (Permutation)
10997	Medals Medals	3.2e, Iterative (Permutation)
11412	Dig the Holes	3.2e, Iterative (Permutation)
11742	Social Constraints	3.2e, Iterative (Permutation)
12249	Overlapping Scenes	3.2e, Iterative (Permutation)
classpicture	<u>classpicture</u>	3.2e, Iterative (Permutation)
dancerecital	<u>ancerecital</u>	3.2e, Iterative (Permutation)
dreamer	<u>dreamer</u>	3.2e, Iterative (Permutation)
towering	towering	3.2e, Iterative (Permutation)
veci	<u>veci</u>	3.2e, Iterative (Permutation)
victorythroughsynergy	<u>victorythroughsynergy</u>	3.2e, Iterative (Permutation)
00435	Block Voting	3.2f, Iterative (Combination)
00517	Word Online Judge	3.2f, Iterative (Combination)
00639	Don't Get Rooked	3.2f, Iterative (Combination)
01047	Zones Zones	3.2f, Iterative (Combination)
11205	The broken pedometer	3.2f, Iterative (Combination)

Both OJ	Problem Title	CP4
11659	Informants Online Judge	3.2f, Iterative (Combination)
12346	Water Gate Management	3.2f, Iterative (Combination)
12348	Fun Coloring	3.2f, Iterative (Combination)
12406	Help Dexter	3.2f, Iterative (Combination)
12694	Meeting Room Arrangement	3.2f, Iterative (Combination)
13103	Tobby and Seven	3.2f, Iterative (Combination)
buildingboundaries	<u>buildingboundaries</u>	3.2f, Iterative (Combination)
doubleplusgood	doubleplusgood	3.2f, Iterative (Combination)
exammanipulation	<u>exammanipulation</u>	3.2f, Iterative (Combination)
geppetto	<u>geppetto</u>	3.2f, Iterative (Combination)
perket	<u>perket</u>	3.2f, Iterative (Combination)
squaredeal	<u>squaredeal</u>	3.2f, Iterative (Combination)
zagrade	<u>zagrade</u>	3.2f, Iterative (Combination)
00102	Ecological Bin Packing	3.2g, Try All Answers
00188	Perfect Hash	3.2g, Try All Answers
00471	Magic Numbers	3.2g, Try All Answers
00725	Division Division	3.2g, Try All Answers
10908	Largest Square	3.2g, Try All Answers
communication	<u>communication</u>	3.2g, Try All Answers
cookingwater	cookingwater	3.2g, Try All Answers
flexible	<u>flexible</u>	3.2g, Try All Answers
heirsdilemma	<u>heirsdilemma</u>	3.2g, Try All Answers
islands	<u>islands</u>	3.2g, Try All Answers
owlandfox	<u>owlandfox</u>	3.2g, Try All Answers

Both OJ	Problem Title	CP4
parking2	parking2	3.2g, Try All Answers
prinova	<u>prinova</u>	3.2g, Try All Answers
savingforretirement	savingforretirement	3.2g, Try All Answers
tabsandspaces	<u>tabsandspaces</u>	3.2g, Try All Answers
walls	<u>walls</u>	3.2g, Try All Answers
00100	The 3n + 1 problem	3.2h, Math Simulation, Easier
00371	Ackermann Functions	3.2h, Math Simulation, Easier
00382	Perfection	3.2h, Math Simulation, Easier
00654	Ratio Ratio	3.2h, Math Simulation, Easier
00906	Rational Neighbor	3.2h, Math Simulation, Easier
01225	Digit Counting.	3.2h, Math Simulation, Easier
01583	Digit Generator	3.2h, Math Simulation, Easier
10346	Peter's Smokes	3.2h, Math Simulation, Easier
10370	Above Average	3.2h, Math Simulation, Easier
10783	Odd Sum	3.2h, Math Simulation, Easier
10879	Code Refactoring	3.2h, Math Simulation, Easier
11001	Necklace	3.2h, Math Simulation, Easier
11150	Cola	3.2h, Math Simulation, Easier
11247	Income Tax	3.2h, Math Simulation, Easier
11313	Gourmet Games	3.2h, Math Simulation, Easier
11689	Soda Surpler	3.2h, Math Simulation, Easier
11877	The Coco-Cola Store	3.2h, Math Simulation, Easier
11934	Magic Formula	3.2h, Math Simulation, Easier
12527	Different Digits	3.2h, Math Simulation, Easier

Both OJ	Problem Title	CP4
12938	Just Another Easy Problem	3.2h, Math Simulation, Easier
13059	Tennis Championship	3.2h, Math Simulation, Easier
13131	Divisors Divisors	3.2h, Math Simulation, Easier
aboveaverage	<u>aboveaverage</u>	3.2h, Math Simulation, Easier
damagedequation	damagedequation	3.2h, Math Simulation, Easier
dicecup	<u>dicecup</u>	3.2h, Math Simulation, Easier
easiest	easiest	3.2h, Math Simulation, Easier
growlinggears	growlinggears	3.2h, Math Simulation, Easier
hailstone2	hailstone2	3.2h, Math Simulation, Easier
harshadnumbers	<u>harshadnumbers</u>	3.2h, Math Simulation, Easier
powersof2easy	powersof2easy	3.2h, Math Simulation, Easier
refrigerator	<u>refrigerator</u>	3.2h, Math Simulation, Easier
socialrunning	socialrunning	3.2h, Math Simulation, Easier
sodaslurper	<u>sodaslurper</u>	3.2h, Math Simulation, Easier
somesum	<u>somesum</u>	3.2h, Math Simulation, Easier
sumoftheothers	<u>sumoftheothers</u>	3.2h, Math Simulation, Easier
tri	<u>tri</u>	3.2h, Math Simulation, Easier
trollhunt	<u>trollhunt</u>	3.2h, Math Simulation, Easier
videospeedup	<u>videospeedup</u>	3.2h, Math Simulation, Easier
zamka	<u>zamka</u>	3.2h, Math Simulation, Easier
00493	Rational Spiral	3.2i, Math Simulation, Harder
00550	Multiplying by Rotation	3.2i, Math Simulation, Harder
00616	Coconuts, Revisited	3.2i, Math Simulation, Harder
00697	Jack and Jill	3.2i, Math Simulation, Harder

Both OJ	Problem Title	CP4
00846	Steps	3.2i, Math Simulation, Harder
10025	The ? 1 ? 2 ? ? n = k	3.2i, Math Simulation, Harder
10035	Primary Arithmetic	3.2i, Math Simulation, Harder
11130	Billiard bounces	3.2i, Math Simulation, Harder
11254	Consecutive Integers	3.2i, Math Simulation, Harder
11490	Just Another Problem	3.2i, Math Simulation, Harder
11968	In The Airport	3.2i, Math Simulation, Harder
12169	Disgruntled Judge	3.2i, Math Simulation, Harder
12290	Counting Game	3.2i, Math Simulation, Harder
12665	Joking with Fermat's Last	3.2i, Math Simulation, Harder
12792	Shuffled Deck	3.2i, Math Simulation, Harder
12895	Armstrong Number	3.2i, Math Simulation, Harder
crackingrsa	<u>crackingrsa</u>	3.2i, Math Simulation, Harder
disgruntledjudge	disgruntledjudge	3.2i, Math Simulation, Harder
falling	<u>falling</u>	3.2i, Math Simulation, Harder
houselawn	houselawn	3.2i, Math Simulation, Harder
lipschitzconstant	lipschitzconstant	3.2i, Math Simulation, Harder
milestones	<u>milestones</u>	3.2i, Math Simulation, Harder
repeatingdecimal	<u>repeatingdecimal</u>	3.2i, Math Simulation, Harder
robotopia	<u>robotopia</u>	3.2i, Math Simulation, Harder
thanosthehero	<u>thanosthehero</u>	3.2i, Math Simulation, Harder
00130	Roman Roulette	3.2j, Josephus Problem
00133	The Dole Queue	3.2j, Josephus Problem
00151	Power Crisis Online Judge	3.2j, Josephus Problem

Both OJ	Problem Title	CP4
00305	Joseph Joseph	3.2j, Josephus Problem
00402	M*A*S*H	3.2j, Josephus Problem
00440	Eeny Meeny Moo	3.2j, Josephus Problem
01176	A Benevolent Josephus	3.2j, Josephus Problem
10015	Joseph's Cousin	3.2j, Josephus Problem
10771	Barbarian tribes	3.2j, Josephus Problem
10774	Repeated Josephus	3.2j, Josephus Problem
11351	Last Man Standing	3.2j, Josephus Problem
coconut	coconut	3.2j, Josephus Problem
eenymeeny	<u>eenymeeny</u>	3.2j, Josephus Problem
musicalchairs	<u>musicalchairs</u>	3.2j, Josephus Problem
toys	toys	3.2j, Josephus Problem
00380	Call Forwarding	3.2k, Backtracking (Easier)
00487	Boggle Blitz	3.2k, Backtracking (Easier)
00524	Prime Ring Problem	3.2k, Backtracking (Easier)
00529	Addition Chains	3.2k, Backtracking (Easier)
00571	Jugs Jugs	3.2k, Backtracking (Easier)
00598	Bundling Newspapers	3.2k, Backtracking (Easier)
00628	Passwords Passwords	3.2k, Backtracking (Easier)
00677	All Walks of length "n" fr	3.2k, Backtracking (Easier)
00729	The Hamming Distance Probl	3.2k, Backtracking (Easier)
00868	Numerical Maze	3.2k, Backtracking (Easier)
10344	Online Judge 23 out of 5	3.2k, Backtracking (Easier)
10452	Marcus Marcus	3.2k, Backtracking (Easier)

Both OJ	Problem Title	CP4
10503	The dominoes solitaire	3.2k, Backtracking (Easier)
10576	Y2K Accounting Bug	3.2k, Backtracking (Easier)
10624	Super Number	3.2k, Backtracking (Easier)
10776	Determine The Combination	3.2k, Backtracking (Easier)
10950	Bad Code	3.2k, Backtracking (Easier)
11201	The problem of the crazy I	3.2k, Backtracking (Easier)
11961	Online Judge DNA	3.2k, Backtracking (Easier)
12840	The Archery Puzzle	3.2k, Backtracking (Easier)
goodmorning	goodmorning	3.2k, Backtracking (Easier)
gradecurving	gradecurving	3.2k, Backtracking (Easier)
natjecanje	<u>natjecanje</u>	3.2k, Backtracking (Easier)
paintings	<u>paintings</u>	3.2k, Backtracking (Easier)
00129	Krypton Factor	3.2l, Backtracking (Harder)
00208	Firetruck	3.2l, Backtracking (Harder)
00222	Budget Travel	3.2l, Backtracking (Harder)
00301	Transportation Transportation	3.2l, Backtracking (Harder)
00307	Sticks	3.2l, Backtracking (Harder)
00331	Mapping the Swaps	3.2l, Backtracking (Harder)
00416	LED Test	3.2l, Backtracking (Harder)
00433	Bank (Not Quite O.C.R.)	3.2l, Backtracking (Harder)
00565	Pizza Anyone?	3.2l, Backtracking (Harder)
01262	Password Online Judge	3.2l, Backtracking (Harder)
10001	Garden of Eden	3.2l, Backtracking (Harder)
10063	Knuth's Permutation	3.2l, Backtracking (Harder)

Both OJ	Problem Title	CP4
10094	Place the Guards	3.2l, Backtracking (Harder)
10460	Find the Permuted String	3.2l, Backtracking (Harder)
10475	Help the Leaders	3.2l, Backtracking (Harder)
10582	ASCII Labyrinth	3.2l, Backtracking (Harder)
11052	Economic phone calls	3.2l, Backtracking (Harder)
11753	Creating Palindrome	3.2l, Backtracking (Harder)
carvet	<u>carvet</u>	3.2I, Backtracking (Harder)
dobra	<u>dobra</u>	3.2l, Backtracking (Harder)
fruitbaskets	<u>fruitbaskets</u>	3.2l, Backtracking (Harder)
pagelayout	<u>pagelayout</u>	3.2l, Backtracking (Harder)
primes	<u>primes</u>	3.2l, Backtracking (Harder)
solitaire	<u>solitaire</u>	3.2l, Backtracking (Harder)
00679	Dropping Balls	3.3a, Binary Search
00957	Popes	3.3a, Binary Search
10057	A mid-summer night's dream	3.3a, Binary Search
10077	The Stern-Brocot Number Sy	3.3a, Binary Search
10474	Where is the Marble?	3.3a, Binary Search
10567	Helping Fill Bates	3.3a, Binary Search
10611	The Playboy Chimp	3.3a, Binary Search
10706	Number Sequence	3.3a, Binary Search
10742	The New Rule in Euphomia	3.3a, Binary Search
11057	Exact Sum	3.3a, Binary Search
11621	Small Factors	3.3a, Binary Search
11876	online studge N + NOD (N).	3.3a, Binary Search

Both OJ	Problem Title	CP4
12192	Grapevine Grapevine	3.3a, Binary Search
12965	Angry Bids Online Judge	3.3a, Binary Search
firefly	<u> firefly</u>	3.3a, Binary Search
outofsorts	outofsorts	3.3a, Binary Search
roompainting	<u>roompainting</u>	3.3a, Binary Search
synchronizinglists	<u>synchronizinglists</u>	3.3a, Binary Search
01753	Need for Speed	3.3b, Bisection and BSTA, E
10341	Solve It	3.3b, Bisection and BSTA, E
11413	Fill the Containers	3.3b, Bisection and BSTA, E
11627	Slalom Side Side Side Side Side Side Side Side	3.3b, Bisection and BSTA, E
11881	Internal Rate of Return	3.3b, Bisection and BSTA, E
11935	Through the Desert	3.3b, Bisection and BSTA, E
12032	The Monkey and the Oiled B	3.3b, Bisection and BSTA, E
12190	Electric Bill	3.3b, Bisection and BSTA, E
12791	Lap	3.3b, Bisection and BSTA, E
13142	Destroy the Moon to Save t	3.3b, Bisection and BSTA, E
bootstrappingnumber	<u>bootstrappingnumber</u>	3.3b, Bisection and BSTA, E
carefulascent	<u>carefulascent</u>	3.3b, Bisection and BSTA, E
financialplanning	financialplanning financialplanning	3.3b, Bisection and BSTA, E
freeweights	<u>freeweights</u>	3.3b, Bisection and BSTA, E
hindex	hindex	3.3b, Bisection and BSTA, E
htoo	htoo	3.3b, Bisection and BSTA, E
monk	<u>monk</u>	3.3b, Bisection and BSTA, E
slalom2	slalom2	3.3b, Bisection and BSTA, E

Both OJ	Problem Title	CP4
smallschedule	<u>smallschedule</u>	3.3b, Bisection and BSTA, E
speed	<u>speed</u>	3.3b, Bisection and BSTA, E
suspensionbridges	<u>suspensionbridges</u>	3.3b, Bisection and BSTA, E
svada	<u>svada</u>	3.3b, Bisection and BSTA, E
00183	Bit Maps	3.3c, Ternary Search & Others
00608	Counterfeit Dollar	3.3c, Ternary Search & Others
01738	Ceiling Function	3.3c, Ternary Search & Others
10385	Duathlon Duathlon	3.3c, Ternary Search & Others
11147	KuPellaKeS BST	3.3c, Ternary Search & Others
11701	Cantor Cantor	3.3c, Ternary Search & Others
12893	Count It	3.3c, Ternary Search & Others
a1paper	<u>a1paper</u>	3.3c, Ternary Search & Others
cantor	<u>cantor</u>	3.3c, Ternary Search & Others
ceiling	<u> ceiling</u>	3.3c, Ternary Search & Others
euclideantsp	<u>euclideantsp</u>	3.3c, Ternary Search & Others
goingtoseed	goingtoseed	3.3c, Ternary Search & Others
jewelrybox	<u>jewelrybox</u>	3.3c, Ternary Search & Others
qanat	<u>qanat</u>	3.3c, Ternary Search & Others
reconnaissance	<u>reconnaissance</u>	3.3c, Ternary Search & Others
sretan	<u>sretan</u>	3.3c, Ternary Search & Others
sylvester	<u>sylvester</u>	3.3c, Ternary Search & Others
tricktreat	<u>tricktreat</u>	3.3c, Ternary Search & Others
zipline	<u>zipline</u>	3.3c, Ternary Search & Others
00410	Station Balance	3.4a, Greedy (Classical)

Both OJ	Problem Title	CP4
01193	Radar Installation	3.4a, Greedy (Classical)
10020	Minimal coverage	3.4a, Greedy (Classical)
10249	The Grand Dinner	3.4a, Greedy (Classical)
10382	Watering Grass	3.4a, Greedy (Classical)
11264	Coin Collector	3.4a, Greedy (Classical)
11292	Dragon of Loowater	3.4a, Greedy (Classical)
11389	The Bus Driver Problem	3.4a, Greedy (Classical)
12210	A Match Making Problem	3.4a, Greedy (Classical)
12321	Gas Stations	3.4a, Greedy (Classical)
12405	Scarecrow Scarecrow	3.4a, Greedy (Classical)
avoidland	avoidland	3.4a, Greedy (Classical)
classrooms	<u>classrooms</u>	3.4a, Greedy (Classical)
color	<u>color</u>	3.4a, Greedy (Classical)
distributingseats	distributingseats	3.4a, Greedy (Classical)
fishmongers	<u>fishmongers</u>	3.4a, Greedy (Classical)
froshweek2	froshweek2	3.4a, Greedy (Classical)
grass	grass grass	3.4a, Greedy (Classical)
inflation	<u>inflation</u>	3.4a, Greedy (Classical)
intervalcover	intervalcover	3.4a, Greedy (Classical)
intervalscheduling	intervalscheduling	3.4a, Greedy (Classical)
loowater	<u>loowater</u>	3.4a, Greedy (Classical)
messages	<u>messages</u>	3.4a, Greedy (Classical)
squarepegs	<u>squarepegs</u>	3.4a, Greedy (Classical)
10763	Foreign Exchange	3.4b, Involving Sorting, E

Both OJ	Problem Title	CP4
10785	The Mad Numerologist	3.4b, Involving Sorting, E
11269	Setting Problems	3.4b, Involving Sorting, E
11369	Shopaholic Shopaholic	3.4b, Involving Sorting, E
11729	Commando War	3.4b, Involving Sorting, E
11900	Boiled Eggs	3.4b, Involving Sorting, E
12485	Perfect Choir	3.4b, Involving Sorting, E
13031	Geek Power Inc.	3.4b, Involving Sorting, E
13109	Elephants	3.4b, Involving Sorting, E
acm2	acm2	3.4b, Involving Sorting, E
akcija	akcija	3.4b, Involving Sorting, E
aprizenoonecanwin	<u>aprizenoonecanwin</u>	3.4b, Involving Sorting, E
fallingapart	<u>fallingapart</u>	3.4b, Involving Sorting, E
fridge	<u>fridge</u>	3.4b, Involving Sorting, E
gettowork	<u>gettowork</u>	3.4b, Involving Sorting, E
help	help	3.4b, Involving Sorting, E
hotsprings	<u>hotsprings</u>	3.4b, Involving Sorting, E
icpcteamselection	<u>icpcteamselection</u>	3.4b, Involving Sorting, E
minimumscalar	<u>minimumscalar</u>	3.4b, Involving Sorting, E
pikemaneasy	pikemaneasy	3.4b, Involving Sorting, E
planetaris	<u>planetaris</u>	3.4b, Involving Sorting, E
plantingtrees	<u>plantingtrees</u>	3.4b, Involving Sorting, E
redistribution	<u>redistribution</u>	3.4b, Involving Sorting, E
shopaholic	<u>shopaholic</u>	3.4b, Involving Sorting, E
standings	<u>standings</u>	3.4b, Involving Sorting, E

Both OJ	Problem Title	CP4
textmessaging	textmessaging	3.4b, Involving Sorting, E
toflur	toflur toflur	3.4b, Involving Sorting, E
universityzoning	universityzoning	3.4b, Involving Sorting, E
woodcutting	woodcutting	3.4b, Involving Sorting, E
10026	Shoemaker's Problem	3.4c, Involving Sorting, H
10037	Bridge	3.4c, Involving Sorting, H
11100	The Trip, 2007	3.4c, Involving Sorting, H
11103	WFF 'N PROOF	3.4c, Involving Sorting, H
12673	Football Football	3.4c, Involving Sorting, H
12834	Extreme Terror	3.4c, Involving Sorting, H
13054	Hippo Circus	3.4c, Involving Sorting, H
airconditioned	<u>airconditioned</u>	3.4c, Involving Sorting, H
andrewant	andrewant	3.4c, Involving Sorting, H
birds	<u>birds</u>	3.4c, Involving Sorting, H
ceremony	<u>ceremony</u>	3.4c, Involving Sorting, H
dasort	dasort	3.4c, Involving Sorting, H
delivery	<u>delivery</u>	3.4c, Involving Sorting, H
fairdivision	<u>fairdivision</u>	3.4c, Involving Sorting, H
intergalacticbidding	intergalacticbidding	3.4c, Involving Sorting, H
keepitcool	<u>keepitcool</u>	3.4c, Involving Sorting, H
trip2007	<u>trip2007</u>	3.4c, Involving Sorting, H
wffnproof	wffnproof	3.4c, Involving Sorting, H
01153	Keep the Customer Satisfie	3.4d, Involving PQ
10954	Online Judge Add All	3.4d, Involving PQ

Both OJ	Problem Title	CP4
12390	Distributing Ballot Boxes	3.4d, Involving PQ
13177	Orchestral scores	3.4d, Involving PQ
ballotboxes	<u>ballotboxes</u>	3.4d, Involving PQ
canvas	<u>canvas</u>	3.4d, Involving PQ
entertainmentbox	entertainmentbox	3.4d, Involving PQ
vegetables	<u>vegetables</u>	3.4d, Involving PQ
workstations	<u>workstations</u>	3.4d, Involving PQ
10152	ShellSort ShellSort	3.4e, Non Classical, Easier
10340	All in All	3.4e, Non Classical, Easier
10440	Ferry Loading II	3.4e, Non Classical, Easier
10602	Editor Nottoobad	3.4e, Non Classical, Easier
10656	Maximum Sum (II)	3.4e, Non Classical, Easier
10672	Marbles on a tree	3.4e, Non Classical, Easier
10700	Camel trading	3.4e, Non Classical, Easier
10714	Ants Ants	3.4e, Non Classical, Easier
11054	Wine trading in Gergovia	3.4e, Non Classical, Easier
11520	Fill the Square	3.4e, Non Classical, Easier
11532	Simple Adjacency Maximizat	3.4e, Non Classical, Easier
12482	Short Story Competition	3.4e, Non Classical, Easier
ants	<u>ants</u>	3.4e, Non Classical, Easier
applesack	<u>applesack</u>	3.4e, Non Classical, Easier
bank	<u>bank</u>	3.4e, Non Classical, Easier
driver	<u>driver</u>	3.4e, Non Classical, Easier
horrorfilmnight	horrorfilmnight	3.4e, Non Classical, Easier

Both OJ	Problem Title	CP4
knitpicking	<u>knitpicking</u>	3.4e, Non Classical, Easier
marblestree	<u>marblestree</u>	3.4e, Non Classical, Easier
pripreme	<u>pripreme</u>	3.4e, Non Classical, Easier
simplicity	simplicity	3.4e, Non Classical, Easier
skocimis	<u>skocimis</u>	3.4e, Non Classical, Easier
teacherevaluation	<u>teacherevaluation</u>	3.4e, Non Classical, Easier
00311	Packets Packets	3.4f, Non Classical, Harder
00668	Parliament Parliament	3.4f, Non Classical, Harder
10718	Bit Mask	3.4f, Non Classical, Harder
10821	Constructing BST	3.4f, Non Classical, Harder
10982	Troublemakers Troublemakers	3.4f, Non Classical, Harder
11157	Dynamic Frog	3.4f, Non Classical, Harder
11230	Annoying painting tool	3.4f, Non Classical, Harder
11240	Antimonotonicity	3.4f, Non Classical, Harder
11330	Andy's Shoes	3.4f, Non Classical, Harder
11335	Discrete Pursuit	3.4f, Non Classical, Harder
11491	Erasing and Winning	3.4f, Non Classical, Harder
11567	Moliu Number Generator	3.4f, Non Classical, Harder
11583	Alien DNA	3.4f, Non Classical, Harder
11890	Calculus Simplified	3.4f, Non Classical, Harder
12124	Assemble Assemble	3.4f, Non Classical, Harder
12516	Cinema-cola	3.4f, Non Classical, Harder
13082	High School Assembly	3.4f, Non Classical, Harder
cardtrading	<u>cardtrading</u>	3.4f, Non Classical, Harder

Both OJ	Problem Title	CP4
dvds	<u>dvds</u>	3.4f, Non Classical, Harder
logland	logland	3.4f, Non Classical, Harder
playground	playground	3.4f, Non Classical, Harder
stockbroker	<u>stockbroker</u>	3.4f, Non Classical, Harder
virus	<u>virus</u>	3.4f, Non Classical, Harder
00108	Maximum Sum	3.5a, Max 1D/2D Range Sum
00507	Jill Rides Again	3.5a, Max 1D/2D Range Sum
00787	Maximum Sub-sequence Produ	3.5a, Max 1D/2D Range Sum
00836	Largest Submatrix	3.5a, Max 1D/2D Range Sum
00983	Localized Summing for Blur	3.5a, Max 1D/2D Range Sum
01105	Coffee Central	3.5a, Max 1D/2D Range Sum
10074	Take the Land	3.5a, Max 1D/2D Range Sum
10667	Largest Block	3.5a, Max 1D/2D Range Sum
10684	The jackpot	3.5a, Max 1D/2D Range Sum
10755	Garbage Heap	3.5a, Max 1D/2D Range Sum
10827	Maximum sum on a torus	3.5a, Max 1D/2D Range Sum
11951	online Judge Area	3.5a, Max 1D/2D Range Sum
12640	Largest Sum Game	3.5a, Max 1D/2D Range Sum
13095	Tobby and Query	3.5a, Max 1D/2D Range Sum
alicedigital	<u>alicedigital</u>	3.5a, Max 1D/2D Range Sum
commercials	<u>commercials</u>	3.5a, Max 1D/2D Range Sum
fieldtrip	<u>fieldtrip</u>	3.5a, Max 1D/2D Range Sum
foldedmap	<u>foldedmap</u>	3.5a, Max 1D/2D Range Sum
nered	nered	3.5a, Max 1D/2D Range Sum

Both OJ	Problem Title	CP4
prozor	<u>prozor</u>	3.5a, Max 1D/2D Range Sum
purplerain	<u>purplerain</u>	3.5a, Max 1D/2D Range Sum
sellingspatulas	<u>sellingspatulas</u>	3.5a, Max 1D/2D Range Sum
shortsell	<u>shortsell</u>	3.5a, Max 1D/2D Range Sum
00111	History Grading	3.5b, LIS
00231	Testing the CATCHER	3.5b, LIS
00437	The Tower of Babylon	3.5b, LIS
00481	What Goes Up	3.5b, LIS
00497	Strategic Defense Initiati	3.5b, LIS
01196	Tiling Up Blocks	3.5b, LIS
10131	Is Bigger Smarter?	3.5b, LIS
10154	Weights and Measures	3.5b, LIS
10534	Wavio Sequence	3.5b, LIS
11368	Nested Dolls Nested Dolls	3.5b, LIS
11456	Trainsorting Trainsorting	3.5b, LIS
11790	Murcia's Skyline Murcia's Skyline	3.5b, LIS
alphabet	<u>alphabet</u>	3.5b, LIS
increasingsubsequence	<u>increasingsubsequence</u>	3.5b, LIS
longincsubseq	longincsubseq	3.5b, LIS
manhattanmornings	<u>manhattanmornings</u>	3.5b, LIS
nesteddolls	<u>nesteddolls</u>	3.5b, LIS
trainsorting	<u>trainsorting</u>	3.5b, LIS
00431	Trial of the Millennium	3.5c, 0-1 KNAPSACK
00562	Dividing coins online Judge	3.5c, 0-1 KNAPSACK

Both OJ	Problem Title	CP4
00990	Diving for Gold Diving for Gold	3.5c, 0-1 KNAPSACK
01213	Sum of Different Primes	3.5c, 0-1 KNAPSACK
10130	SuperSale	3.5c, 0-1 KNAPSACK
10261	Ferry Loading	3.5c, 0-1 KNAPSACK
10616	Divisible Group Sums	3.5c, 0-1 KNAPSACK
10664	Luggage	3.5c, 0-1 KNAPSACK
10690	Expression Again	3.5c, 0-1 KNAPSACK
10819	Trouble of 13-Dots	3.5c, 0-1 KNAPSACK
11003	Boxes	3.5c, 0-1 KNAPSACK
11341	Term Strategy	3.5c, 0-1 KNAPSACK
11566	Let's Yum Cha!	3.5c, 0-1 KNAPSACK
11658	Best Coalitions	3.5c, 0-1 KNAPSACK
11832	Account Book	3.5c, 0-1 KNAPSACK
12621	On a Diet	3.5c, 0-1 KNAPSACK
knapsack	knapsack	3.5c, 0-1 KNAPSACK
muzicari	<u>muzicari</u>	3.5c, 0-1 KNAPSACK
ninepacks	<u>ninepacks</u>	3.5c, 0-1 KNAPSACK
orders	orders orders	3.5c, 0-1 KNAPSACK
presidentialelections	<u>presidentialelections</u>	3.5c, 0-1 KNAPSACK
00147	Dollars Dollars	3.5d, COIN-CHANGE
00166	Making Change	3.5d, COIN-CHANGE
00242	Stamps and Envelope Size	3.5d, COIN-CHANGE
00357	Let Me Count The Ways	3.5d, COIN-CHANGE
00674	Coin Change	3.5d, COIN-CHANGE

Both OJ	Problem Title	CP4
10313	Pay the Price	3.5d, COIN-CHANGE
10448	Unique World	3.5d, COIN-CHANGE
11137	Ingenuous Cubrency	3.5d, COIN-CHANGE
11259	Coin Changing Again	3.5d, COIN-CHANGE
11517	Exact Change	3.5d, COIN-CHANGE
bagoftiles	<u>bagoftiles</u>	3.5d, COIN-CHANGE
canonical	<u>canonical</u>	3.5d, COIN-CHANGE
exactchange2	exactchange2	3.5d, COIN-CHANGE
00216	Getting in Line	3.5e, TSP
01281	Bus Tour	3.5e, TSP
10496	Collecting Beepers	3.5e, TSP
11795	Mega Man's Mission	3.5e, TSP
12841	In Puzzleland (III)	3.5e, TSP
beepers	<u>beepers</u>	3.5e, TSP
bustour	<u>bustour</u>	3.5e, TSP
cycleseasy	<u>Cycleseasy</u>	3.5e, TSP
errands	<u>errands</u>	3.5e, TSP
maximizingyourpay	<u>maximizingyourpay</u>	3.5e, TSP
pokemongogo	<u>pokemongogo</u>	3.5e, TSP
race	<u>race</u>	3.5e, TSP
00116	Unidirectional TSP	3.5f, DP level 1
00196	Spreadsheet online Judge Spreadsheet	3.5f, DP level 1
00215	Spreadsheet Calculator	3.5f, DP level 1
01261	String Popping String Popping	3.5f, DP level 1

Both OJ	Problem Title	CP4
10003	Cutting Sticks	3.5f, DP level 1
10036	Divisibility Online Judge	3.5f, DP level 1
10086	Test the Rods	3.5f, DP level 1
10337	Flight Planner	3.5f, DP level 1
10446	The Marriage Interview :-)	3.5f, DP level 1
10520	Determine it	3.5f, DP level 1
10721	Bar Codes	3.5f, DP level 1
10910	Marks Distribution	3.5f, DP level 1
10912	Simple Minded Hashing	3.5f, DP level 1
10943	How do you add?	3.5f, DP level 1
10980	Lowest Price in Town	3.5f, DP level 1
11026	A Grouping Problem	3.5f, DP level 1
11407	Squares Squares	3.5f, DP level 1
11420	Chest of Drawers	3.5f, DP level 1
11450	Wedding shopping Wedding shopping	3.5f, DP level 1
11703	sqrt log sin	3.5f, DP level 1
12654	Patches	3.5f, DP level 1
12951	Stock Market	3.5f, DP level 1
13141	Growing Trees	3.5f, DP level 1
keyboardconcert	<u>keyboardconcert</u>	3.5f, DP level 1
nikola	<u>nikola</u>	3.5f, DP level 1
permutationdescent	permutationdescent	3.5f, DP level 1
spiderman	<u>spiderman</u>	3.5f, DP level 1
ticketpricing	<u>ticketpricing</u>	3.5f, DP level 1

Both OJ	Problem Title	CP4
weightofwords	weightofwords weightofwords	3.5f, DP level 1
wordclouds	<u>wordclouds</u>	3.5f, DP level 1
00662	Fast Food	3.5g, DP level 2
10039	Railroads	3.5g, DP level 2
10069	Distinct Subsequences	3.5g, DP level 2
10081	Tight Words	3.5g, DP level 2
10120	Gift?!	3.5g, DP level 2
10164	Number Game Number Game	3.5g, DP level 2
10239	The Book-shelver's Problem	3.5g, DP level 2
10400	Game Show Math	3.5g, DP level 2
10465	Homer Simpson	3.5g, DP level 2
10651	Pebble Solitaire	3.5g, DP level 2
11485	Extreme Discrete Summation	3.5g, DP level 2
11514	Batman Batman	3.5g, DP level 2
11908	Skyscraper Skyscraper	3.5g, DP level 2
12324	Philip J. Fry Problem	3.5g, DP level 2
12862	Intrepid climber	3.5g, DP level 2
12955	Factorial Factorial	3.5g, DP level 2
debugging	debugging	3.5g, DP level 2
drivinglanes	<u>drivinglanes</u>	3.5g, DP level 2
kutevi	<u>kutevi</u>	3.5g, DP level 2
tight	<u>tight</u>	3.5g, DP level 2
walrusweights	<u>walrusweights</u>	3.5g, DP level 2
watersheds	<u>watersheds</u>	3.5g, DP level 2

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