Competitive Programming

Methods to Solve (2000-present)

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

OJ: [Both ▾] , Topic: [Chapter 8 ▾] , Quality: [All ▾]

Online Judge shown: Both
Problem topics shown: Chapter 8 : More Advanced Topics only
Problem Quality: All
Number of problems shown (initially in CP4 order): 497
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
00131	The Psychic Poker Player	8.2a, Harder Backtracking
00211	The Domino Effect	8.2a, Harder Backtracking
00387	A Puzzling Problem	8.2a, Harder Backtracking

Both OJ	Problem Title	CP4
00710	The Game	8.2a, Harder Backtracking
00711	Dividing up	8.2a, Harder Backtracking
01052	Bit Compressor	8.2a, Harder Backtracking
10202	Pairsumonious Numbers	8.2a, Harder Backtracking
10309	Turn the Lights Off	8.2a, Harder Backtracking
10318	Security Panel	8.2a, Harder Backtracking
10422	Knights in FEN	8.2a, Harder Backtracking
10890	Maze	8.2a, Harder Backtracking
11090	Going in Cycle!!	8.2a, Harder Backtracking
11127	Triple-Free Binary Strings	8.2a, Harder Backtracking
11195	Another n-Queen Problem	8.2a, Harder Backtracking
11451	Water restrictions	8.2a, Harder Backtracking
11464	Even Parity	8.2a, Harder Backtracking
11471	Arrange the Tiles	8.2a, Harder Backtracking
11699	Rooks	8.2a, Harder Backtracking
capsules	capsules	8.2a, Harder Backtracking
committeeassignment	committeeassignment	8.2a, Harder Backtracking
greatswercporto	greatswercporto	8.2a, Harder Backtracking
holeynqueensbatman	holeynqueensbatman	8.2a, Harder Backtracking
knightsfen	knightsfen	8.2a, Harder Backtracking
minibattleship	minibattleship	8.2a, Harder Backtracking
pebblesolitaire	pebblesolitaire	8.2a, Harder Backtracking
sumdoku	sumdoku	8.2a, Harder Backtracking
00298	Race Tracks	8.2b, State-Space, BFS, E

Both OJ	Problem Title	CP4
00928	Eternal Truths	8.2b, State-Space, BFS, E
01600	Patrol Robot	8.2b, State-Space, BFS, E
10047	The Monocycle	8.2b, State-Space, BFS, E
10097	The Color Game	8.2b, State-Space, BFS, E
10306	e-Coins	8.2b, State-Space, BFS, E
10682	Forr	8.2b, State-Space, BFS, E
11513	9 Puzzle	8.2b, State-Space, BFS, E
11974	Switch The Lights	8.2b, State-Space, BFS, E
12135	Switch Bulbs	8.2b, State-Space, BFS, E
ecoins	ecoins	8.2b, State-Space, BFS, E
flipfive	flipfive	8.2b, State-Space, BFS, E
hydrasheads	hydrasheads	8.2b, State-Space, BFS, E
illiteracy	illiteracy	8.2b, State-Space, BFS, E
safe	safe	8.2b, State-Space, BFS, E
00321	The New Villa	8.2c, State-Space, BFS, H
00704	Colour Hash	8.2c, State-Space, BFS, H
00816	Abbott's Revenge	8.2c, State-Space, BFS, H
00985	Round and Round Maze	8.2c, State-Space, BFS, H
01251	Repeated Substitution with...	8.2c, State-Space, BFS, H
01253	Infected Land	8.2c, State-Space, BFS, H
01714	Keyboarding	8.2c, State-Space, BFS, H
10021	Cube in the labirint	8.2c, State-Space, BFS, H
10085	The most distant state	8.2c, State-Space, BFS, H
11160	Going Together	8.2c, State-Space, BFS, H

Both OJ	Problem Title	CP4
11198	📙 *Dancing Digits*	8.2c, State-Space, BFS, H
11212	📙 *Editing a Book*	8.2c, State-Space, BFS, H
11329	📙 *Curious Fleas*	8.2c, State-Space, BFS, H
12445	📙 *Happy 12*	8.2c, State-Space, BFS, H
12569	📙 Planning mobile robot on T...	8.2c, State-Space, BFS, H
buggyrobot	🐱 buggyrobot	8.2c, State-Space, BFS, H
buggyrobot2	🐱 buggyrobot2	8.2c, State-Space, BFS, H
distinctivecharacter	🐱 distinctivecharacter	8.2c, State-Space, BFS, H
enteringthetime	🐱 enteringthetime	8.2c, State-Space, BFS, H
jabuke2	🐱 jabuke2	8.2c, State-Space, BFS, H
jumpingyoshi	🐱 jumpingyoshi	8.2c, State-Space, BFS, H
keyboard	🐱 *keyboard*	8.2c, State-Space, BFS, H
ricochetrobots	🐱 ricochetrobots	8.2c, State-Space, BFS, H
robotmaze	🐱 *robotmaze*	8.2c, State-Space, BFS, H
robotturtles	🐱 *robotturtles*	8.2c, State-Space, BFS, H
00658	📙 *It's not a Bug, it's a Fea...*	8.2d, State-Space, Dijkstra
01048	📙 *Low Cost Air Travel*	8.2d, State-Space, Dijkstra
01057	📙 *Routing*	8.2d, State-Space, Dijkstra
10269	📙 *Adventure of Super Mario*	8.2d, State-Space, Dijkstra
10923	📙 Seven Seas	8.2d, State-Space, Dijkstra
11374	📙 Airport Express	8.2d, State-Space, Dijkstra
bigtruck	🐱 bigtruck	8.2d, State-Space, Dijkstra
bumped	🐱 *bumped*	8.2d, State-Space, Dijkstra
destinationunknown	🐱 *destinationunknown*	8.2d, State-Space, Dijkstra

Both OJ	Problem Title	CP4
kitchen	kitchen	8.2d, State-Space, Dijkstra
quantum	quantum	8.2d, State-Space, Dijkstra
rainbowroadrace	rainbowroadrace	8.2d, State-Space, Dijkstra
treasure	treasure	8.2d, State-Space, Dijkstra
00672	*Gangsters*	*8.3a, DP level 3*
00882	The Mailbox Manufacturers ...	8.3a, DP level 3
01172	*The Bridges of Kolsberg*	*8.3a, DP level 3*
01211	*Atomic Car Race*	*8.3a, DP level 3*
10163	Storage Keepers	8.3a, DP level 3
10604	Chemical Reaction	8.3a, DP level 3
10645	*Menu*	*8.3a, DP level 3*
10898	Combo Deal	8.3a, DP level 3
11002	Towards Zero	8.3a, DP level 3
11285	Exchange Rates	8.3a, DP level 3
11523	Recycling	8.3a, DP level 3
11555	Aspen Avenue	8.3a, DP level 3
12208	How Many Ones Needed?	8.3a, DP level 3
12563	Jin Ge Jin Qu hao	8.3a, DP level 3
aspenavenue	*aspenavenue*	*8.3a, DP level 3*
busticket	*busticket*	*8.3a, DP level 3*
crackerbarrel	crackerbarrel	8.3a, DP level 3
eatingeverything	eatingeverything	8.3a, DP level 3
exchangerates	exchangerates	8.3a, DP level 3
homework	homework	8.3a, DP level 3

Both OJ	Problem Title	CP4
ingestion	ingestion	8.3a, DP level 3
mailbox	mailbox	8.3a, DP level 3
posterize	posterize	8.3a, DP level 3
protectingthecollection	protectingthecollection	8.3a, DP level 3
welcomeeasy	welcomeeasy	8.3a, DP level 3
welcomehard	welcomehard	8.3a, DP level 3
00473	Raucous Rockers	8.3b, DP level 4
00812	Trade on Verweggistan	8.3b, DP level 4
01222	Bribing FIPA	8.3b, DP level 4
01231	ACORN	8.3b, DP level 4
01238	*Free Parentheses*	*8.3b, DP level 4*
10029	Edit Step Ladders	8.3b, DP level 4
10118	Free Candies	8.3b, DP level 4
10304	*Optimal Binary Search Tree*	*8.3b, DP level 4*
10482	The Candyman Can	8.3b, DP level 4
10559	Blocks	8.3b, DP level 4
10626	Buying Coke	8.3b, DP level 4
12870	*Fishing*	*8.3b, DP level 4*
city	city	8.3b, DP level 4
coke	*coke*	*8.3b, DP level 4*
companypicnic	*companypicnic*	*8.3b, DP level 4*
johnsstack	johnsstack	8.3b, DP level 4
mububa	mububa	8.3b, DP level 4
rollercoasterfun	*rollercoasterfun*	*8.3b, DP level 4*

Both OJ	Problem Title	CP4
volumeamplification	volumeamplification	8.3b, DP level 4
00702	The Vindictive Coach	8.3c, Counting Paths, Harder
10722	Super Lucky Numbers	8.3c, Counting Paths, Harder
11125	Arrange Some Marbles	8.3c, Counting Paths, Harder
11133	Eigensequence	8.3c, Counting Paths, Harder
11375	Matches	8.3c, Counting Paths, Harder
11432	Busy Programmer	8.3c, Counting Paths, Harder
12063	Zeros and Ones	8.3c, Counting Paths, Harder
constrainedfreedomofchoice	constrainedfreedomofchoice	8.3c, Counting Paths, Harder
countcircuits	countcircuits	8.3c, Counting Paths, Harder
favourable	favourable	8.3c, Counting Paths, Harder
frustratedqueue	frustratedqueue	8.3c, Counting Paths, Harder
pachinkoprobability	pachinkoprobability	8.3c, Counting Paths, Harder
ratings	ratings	8.3c, Counting Paths, Harder
tractor	tractor	8.3c, Counting Paths, Harder
woodensigns	woodensigns	8.3c, Counting Paths, Harder
01076	Password Suspects	8.3d, DP with Bitmask
01099	Sharing Chocolate	8.3d, DP with Bitmask
01240	ICPC Team Strategy	8.3d, DP with Bitmask
01252	Twenty Questions	8.3d, DP with Bitmask
10123	No Tipping	8.3d, DP with Bitmask
10149	Yahtzee	8.3d, DP with Bitmask
10364	Square	8.3d, DP with Bitmask
10817	Headmaster's Headache	8.3d, DP with Bitmask

Both OJ	Problem Title	CP4
10911	Forming Quiz Teams	*8.3d, DP with Bitmask*
11218	KTV	8.3d, DP with Bitmask
11391	Blobs in the Board	8.3d, DP with Bitmask
11472	Beautiful Numbers	8.3d, DP with Bitmask
11806	Cheerleaders	8.3d, DP with Bitmask
11825	Hackers' Crackdown	*8.3d, DP with Bitmask*
12030	Help the Winners	8.3d, DP with Bitmask
hidingchickens	hidingchickens	*8.3d, DP with Bitmask*
narrowartgallery	narrowartgallery	*8.3d, DP with Bitmask*
paths	paths	8.3d, DP with Bitmask
pebblesolitaire2	pebblesolitaire2	*8.3d, DP with Bitmask*
uxuhulvoting	uxuhulvoting	8.3d, DP with Bitmask
wherehaveyoubin	wherehaveyoubin	8.3d, DP with Bitmask
00259	Software Allocation	8.4a, Network Flow, Standard
00820	Internet Bandwidth	*8.4a, Network Flow, Standard*
10092	The Problem with the Probl…	8.4a, Network Flow, Standard
10511	Councilling	8.4a, Network Flow, Standard
10779	Collectors Problem	8.4a, Network Flow, Standard
11045	My T-shirt suits me	8.4a, Network Flow, Standard
11082	Matrix Decompressing	8.4a, Network Flow, Standard
11167	Monkeys in the Emei Mounta…	*8.4a, Network Flow, Standard*
11418	Clever Naming Patterns	*8.4a, Network Flow, Standard*
12873	The Programmers	*8.4a, Network Flow, Standard*
councilling	councilling	8.4a, Network Flow, Standard

Both OJ	Problem Title	CP4
dutyscheduler	🐱 dutyscheduler	8.4a, Network Flow, Standard
jupiter	🐱 jupiter	8.4a, Network Flow, Standard
maxflow	🐱 *maxflow*	*8.4a, Network Flow, Standard*
mazemovement	🐱 *mazemovement*	*8.4a, Network Flow, Standard*
mincut	🐱 *mincut*	*8.4a, Network Flow, Standard*
piano	🐱 piano	8.4a, Network Flow, Standard
tomography	🐱 tomography	8.4a, Network Flow, Standard
waif	🐱 waif	8.4a, Network Flow, Standard
water	🐱 water	8.4a, Network Flow, Standard
00563	🔷 *Crimewave*	*8.4b, Network Flow, Variants*
01242	🔷 Necklace	8.4b, Network Flow, Variants
10330	🔷 Power Transmission	8.4b, Network Flow, Variants
10480	🔷 Sabotage	8.4b, Network Flow, Variants
11380	🔷 *Down Went The Titanic*	*8.4b, Network Flow, Variants*
11506	🔷 Angry Programmer	8.4b, Network Flow, Variants
11757	🔷 *Winger Trial*	*8.4b, Network Flow, Variants*
11765	🔷 *Component Placement*	*8.4b, Network Flow, Variants*
12125	🔷 March of the Penguins	8.4b, Network Flow, Variants
avoidingtheapocalypse	🐱 *avoidingtheapocalypse*	*8.4b, Network Flow, Variants*
budget	🐱 budget	8.4b, Network Flow, Variants
chesscompetition	🐱 chesscompetition	8.4b, Network Flow, Variants
congest	🐱 congest	8.4b, Network Flow, Variants
conveyorbelts	🐱 conveyorbelts	8.4b, Network Flow, Variants
copsandrobbers	🐱 copsandrobbers	8.4b, Network Flow, Variants

Both OJ	Problem Title	CP4
darkness	🐾 darkness	8.4b, Network Flow, Variants
floodingfields	🐾 floodingfields	8.4b, Network Flow, Variants
landscaping	🐾 landscaping	8.4b, Network Flow, Variants
marchofpenguins	🐾 marchofpenguins	8.4b, Network Flow, Variants
neutralground	🐾 neutralground	8.4b, Network Flow, Variants
thekingofthenorth	🐱 *thekingofthenorth*	*8.4b, Network Flow, Variants*
transportation	🐱 *transportation*	*8.4b, Network Flow, Variants*
unfairplay	🐱 unfairplay	8.4b, Network Flow, Variants
00193	Graph Coloring	8.6a, NP-hard/C, small, E
00539	The Settlers of Catan	8.6a, NP-hard/C, small, E
00574	Sum It Up	8.6a, NP-hard/C, small, E
00624	CD	8.6a, NP-hard/C, small, E
00775	Hamiltonian Cycle	8.6a, NP-hard/C, small, E
00989	*Su Doku*	*8.6a, NP-hard/C, small, E*
10957	So Doku Checker	8.6a, NP-hard/C, small, E
11088	*End up with More Teams*	*8.6a, NP-hard/C, small, E*
12455	*Bars*	*8.6a, NP-hard/C, small, E*
balanceddiet	🐱 balanceddiet	8.6a, NP-hard/C, small, E
equalsumseasy	🐱 *equalsumseasy*	*8.6a, NP-hard/C, small, E*
flowfree	🐱 *flowfree*	*8.6a, NP-hard/C, small, E*
font	🐱 *font*	*8.6a, NP-hard/C, small, E*
satisfiability	🐱 satisfiability	8.6a, NP-hard/C, small, E
socialadvertising	🐱 *socialadvertising*	*8.6a, NP-hard/C, small, E*
tightfitsudoku	🐱 tightfitsudoku	8.6a, NP-hard/C, small, E

Both OJ	Problem Title	CP4
vivoparc	vivoparc	8.6a, NP-hard/C, small, E
01098	Robots on Ice	8.6b, NP-hard/C, small, H
01217	Route Planning	8.6b, NP-hard/C, small, H
10032	Tug of War	8.6b, NP-hard/C, small, H
10125	Sumsets	8.6b, NP-hard/C, small, H
10160	Servicing Stations	8.6b, NP-hard/C, small, H
10571	Products	8.6b, NP-hard/C, small, H
11065	A Gentlemen's Agreement	8.6b, NP-hard/C, small, H
11095	Tabriz City	8.6b, NP-hard/C, small, H
12911	Subset sum	8.6b, NP-hard/C, small, H
beanbag	beanbag	8.6b, NP-hard/C, small, H
busplanning	busplanning	8.6b, NP-hard/C, small, H
coloring	coloring	8.6b, NP-hard/C, small, H
mapcolouring	mapcolouring	8.6b, NP-hard/C, small, H
programmingteamselection	programmingteamselection	8.6b, NP-hard/C, small, H
01194	Machine Schedule	8.6c, NP-hard/C, special, E
01347	Tour	8.6c, NP-hard/C, special, E
10243	Fire! Fire!! Fire!!!	8.6c, NP-hard/C, special, E
10349	Antenna Placement	8.6c, NP-hard/C, special, E
10859	Placing Lampposts	8.6c, NP-hard/C, special, E
11159	Factors and Multiples	8.6c, NP-hard/C, special, E
11357	Ensuring Truth	8.6c, NP-hard/C, special, E
11419	SAM I AM	8.6c, NP-hard/C, special, E
12083	Guardian of Decency	8.6c, NP-hard/C, special, E

Both OJ	Problem Title	CP4
12168	Cat vs. Dog	8.6c, NP-hard/C, special, E
13115	Sudoku	8.6c, NP-hard/C, special, E
antennaplacement	antennaplacement	8.6c, NP-hard/C, special, E
bilateral	bilateral	8.6c, NP-hard/C, special, E
bookcircle	bookcircle	8.6c, NP-hard/C, special, E
catvsdog	catvsdog	8.6c, NP-hard/C, special, E
citrusintern	citrusintern	8.6c, NP-hard/C, special, E
countingclauses	countingclauses	8.6c, NP-hard/C, special, E
europeantrip	europeantrip	8.6c, NP-hard/C, special, E
guardianofdecency	guardianofdecency	8.6c, NP-hard/C, special, E
reactivity	reactivity	8.6c, NP-hard/C, special, E
01086	The Ministers' Major Mess	8.6d, NP-hard/C, special, H
01096	The Islands	8.6d, NP-hard/C, special, H
01184	Air Raid	8.6d, NP-hard/C, special, H
01201	Taxi Cab Scheme	8.6d, NP-hard/C, special, H
01212	Duopoly	8.6d, NP-hard/C, special, H
01220	Party at Hali-Bula	8.6d, NP-hard/C, special, H
10319	Manhattan	8.6d, NP-hard/C, special, H
11294	Wedding	8.6d, NP-hard/C, special, H
airports	airports	8.6d, NP-hard/C, special, H
eastereggs	eastereggs	8.6d, NP-hard/C, special, H
ironcoal	ironcoal	8.6d, NP-hard/C, special, H
itcanbearranged	itcanbearranged	8.6d, NP-hard/C, special, H
jailbreak	jailbreak	8.6d, NP-hard/C, special, H

Both OJ	Problem Title	CP4
joggers	🐾 joggers	8.6d, NP-hard/C, special, H
mafija	🐾 mafija	8.6d, NP-hard/C, special, H
ridofcoins	🦊 ridofcoins	8.6d, NP-hard/C, special, H
taxicab	🐾 taxicab	8.6d, NP-hard/C, special, H
wedding	🦊 wedding	8.6d, NP-hard/C, special, H
00714	📘 Copying Books	8.7a, BSTA+Other, Easier
10566	📘 Crossed Ladders	8.7a, BSTA+Other, Easier
10606	📘 Opening Doors	8.7a, BSTA+Other, Easier
10668	📘 Expanding Rods	8.7a, BSTA+Other, Easier
10804	📘 Gopher Strategy	8.7a, BSTA+Other, Easier
10816	📘 Travel in Desert	8.7a, BSTA+Other, Easier
11262	📘 Weird Fence	8.7a, BSTA+Other, Easier
11646	📘 Athletics Track	8.7a, BSTA+Other, Easier
12097	📘 Pie	8.7a, BSTA+Other, Easier
12851	📘 The Tinker's Puzzle	8.7a, BSTA+Other, Easier
12853	📘 The Pony Cart Problem	8.7a, BSTA+Other, Easier
12908	📘 The book thief	8.7a, BSTA+Other, Easier
arrivingontime	🦊 arrivingontime	8.7a, BSTA+Other, Easier
bigboxes	🐾 bigboxes	8.7a, BSTA+Other, Easier
canyoncrossing	🐾 canyoncrossing	8.7a, BSTA+Other, Easier
charlesincharge	🦊 charlesincharge	8.7a, BSTA+Other, Easier
expandingrods	🐾 expandingrods	8.7a, BSTA+Other, Easier
fencebowling	🐾 fencebowling	8.7a, BSTA+Other, Easier
forestforthetrees	🐾 forestforthetrees	8.7a, BSTA+Other, Easier

Both OJ	Problem Title	CP4
gridgame	gridgame	8.7a, BSTA+Other, Easier
prettygoodcuberoot	prettygoodcuberoot	8.7a, BSTA+Other, Easier
programmingtutors	programmingtutors	8.7a, BSTA+Other, Easier
rockclimbing	rockclimbing	8.7a, BSTA+Other, Easier
skijumping	skijumping	8.7a, BSTA+Other, Easier
01221	Against Mammoths	8.7b, BSTA+Other, Harder
01577	Low Power	8.7b, BSTA+Other, Harder
10372	Leaps Tall Buildings (in a...	8.7b, BSTA+Other, Harder
10537	The Toll! Revisited	8.7b, BSTA+Other, Harder
10983	Buy one, get the rest free	8.7b, BSTA+Other, Harder
11516	WiFi	8.7b, BSTA+Other, Harder
11670	Physics Experiment	8.7b, BSTA+Other, Harder
12255	Underwater Snipers	8.7b, BSTA+Other, Harder
12428	Enemy at the Gates	8.7b, BSTA+Other, Harder
carpet	carpet	8.7b, BSTA+Other, Harder
catandmice	catandmice	8.7b, BSTA+Other, Harder
gravamen	gravamen	8.7b, BSTA+Other, Harder
low	low	8.7b, BSTA+Other, Harder
risk	risk	8.7b, BSTA+Other, Harder
wifi	wifi	8.7b, BSTA+Other, Harder
10789	Prime Frequency	8.7c, Fast DS+Other, Easier
11960	Divisor Game	8.7c, Fast DS+Other, Easier
11966	Galactic Bonding	8.7c, Fast DS+Other, Easier
11967	Hic-Hac-Hoe	8.7c, Fast DS+Other, Easier

Both OJ	Problem Title	CP4
12318	Digital Roulette	*8.7c, Fast DS+Other, Easier*
12460	Careful teacher	*8.7c, Fast DS+Other, Easier*
13135	Homework	8.7c, Fast DS+Other, Easier
bing	bing	*8.7c, Fast DS+Other, Easier*
busnumbers2	busnumbers2	*8.7c, Fast DS+Other, Easier*
caveexploration2	caveexploration2	8.7c, Fast DS+Other, Easier
conquest	conquest	8.7c, Fast DS+Other, Easier
gcds	gcds	8.7c, Fast DS+Other, Easier
loopytransit	loopytransit	8.7c, Fast DS+Other, Easier
reducedidnumbers	reducedidnumbers	8.7c, Fast DS+Other, Easier
selfsimilarstrings	selfsimilarstrings	*8.7c, Fast DS+Other, Easier*
simplecronspec	simplecronspec	8.7c, Fast DS+Other, Easier
undetected	undetected	*8.7c, Fast DS+Other, Easier*
znanstvenik	znanstvenik	8.7c, Fast DS+Other, Easier
00843	Crypt Kicker	*8.7d, Fast DS+Other, Harder*
00922	Rectangle by the Ocean	8.7d, Fast DS+Other, Harder
10150	Doublets	8.7d, Fast DS+Other, Harder
10734	Triangle Partitioning	8.7d, Fast DS+Other, Harder
11474	Dying Tree	*8.7d, Fast DS+Other, Harder*
11525	Permutation	*8.7d, Fast DS+Other, Harder*
catcoat	catcoat	8.7d, Fast DS+Other, Harder
chesstournament	chesstournament	8.7d, Fast DS+Other, Harder
circular	circular	8.7d, Fast DS+Other, Harder
clockconstruction	clockconstruction	8.7d, Fast DS+Other, Harder

Both OJ	Problem Title	CP4
dictionaryattack	🦊 *dictionaryattack*	*8.7d, Fast DS+Other, Harder*
doublets	🦊 *doublets*	*8.7d, Fast DS+Other, Harder*
downfall	🐱 downfall	8.7d, Fast DS+Other, Harder
kletva	🐱 kletva	8.7d, Fast DS+Other, Harder
magicallights	🦊 *magicallights*	*8.7d, Fast DS+Other, Harder*
numbersetseasy	🐱 numbersetseasy	8.7d, Fast DS+Other, Harder
numbersetshard	🐱 numbersetshard	8.7d, Fast DS+Other, Harder
setstack	🐱 setstack	8.7d, Fast DS+Other, Harder
sparklesseven	🦊 *sparklesseven*	*8.7d, Fast DS+Other, Harder*
00142	Mouse Clicks	8.7e, Geometry+CS
00184	Laser Lines	8.7e, Geometry+CS
00201	Squares	8.7e, Geometry+CS
00270	Lining Up	8.7e, Geometry+CS
00356	Square Pegs And Round Hole...	8.7e, Geometry+CS
00638	Finding Rectangles	8.7e, Geometry+CS
00688	Mobile Phone Coverage	8.7e, Geometry+CS
10012	*How Big Is It?*	*8.7e, Geometry+CS*
10167	*Birthday Cake*	*8.7e, Geometry+CS*
10301	Rings and Glue	8.7e, Geometry+CS
10310	Dog and Gopher	8.7e, Geometry+CS
10823	*Of Circles and Squares*	*8.7e, Geometry+CS*
11227	*The silver bullet.*	*8.7e, Geometry+CS*
11515	Cranes	8.7e, Geometry+CS
11574	Colliding Traffic	8.7e, Geometry+CS

Both OJ	Problem Title	CP4
areyoulistening	areyoulistening	8.7e, Geometry+CS
beehives	beehives	8.7e, Geometry+CS
collidingtraffic	collidingtraffic	8.7e, Geometry+CS
cranes	cranes	8.7e, Geometry+CS
doggopher	doggopher	8.7e, Geometry+CS
splat	splat	8.7e, Geometry+CS
unlockpattern2	unlockpattern2	8.7e, Geometry+CS
unusualdarts	unusualdarts	8.7e, Geometry+CS
10514	River Crossing	8.7f, Geometry+Other
11008	Antimatter Ray Clearcuttin...	8.7f, Geometry+Other
12322	Handgun Shooting Sport	8.7f, Geometry+Other
dejavu	dejavu	8.7f, Geometry+Other
findinglines	findinglines	8.7f, Geometry+Other
humancannonball	humancannonball	8.7f, Geometry+Other
particlecollision	particlecollision	8.7f, Geometry+Other
subwayplanning	subwayplanning	8.7f, Geometry+Other
tram	tram	8.7f, Geometry+Other
urbandesign	urbandesign	8.7f, Geometry+Other
walkway	walkway	8.7f, Geometry+Other
00273	Jack Straws	8.7g, Graph+Other
00393	The Doors	8.7g, Graph+Other
00521	Gossiping	8.7g, Graph+Other
01039	Simplified GSM Network	8.7g, Graph+Other
01092	Tracking Bio-bots	8.7g, Graph+Other

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01243	Polynomial-time Reductions	8.7g, Graph+Other
01263	Mines	8.7g, Graph+Other
10068	The Treasure Hunt	8.7g, Graph+Other
10075	Airlines	8.7g, Graph+Other
11267	The Hire-a-Coder Business ...	8.7g, Graph+Other
11635	Hotel booking	8.7g, Graph+Other
11721	Instant View of Big Bang	8.7g, Graph+Other
11730	Number Transformation	8.7g, Graph+Other
12070	Invite Your Friends	8.7g, Graph+Other
12101	Prime Path	8.7g, Graph+Other
12159	Gun Fight	8.7g, Graph+Other
12797	Letters	8.7g, Graph+Other
bicikli	bicikli	8.7g, Graph+Other
crowdcontrol	crowdcontrol	8.7g, Graph+Other
deadend	deadend	8.7g, Graph+Other
diplomacy	diplomacy	8.7g, Graph+Other
findpoly	findpoly	8.7g, Graph+Other
gears2	gears2	8.7g, Graph+Other
gridmst	gridmst	8.7g, Graph+Other
primepath	primepath	8.7g, Graph+Other
units	units	8.7g, Graph+Other
vuk	vuk	8.7g, Graph+Other
01069	Always an integer	8.7h, Mathematics+Other
01195	Calling Extraterrestrial I...	8.7h, Mathematics+Other

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10325	The Lottery	8.7h, Mathematics+Other
10419	Sum-up the Primes	8.7h, Mathematics+Other
10427	Naughty Sleepy Boys	8.7h, Mathematics+Other
10539	*Almost Prime Numbers*	*8.7h, Mathematics+Other*
10637	Coprimes	8.7h, Mathematics+Other
10717	Mint	8.7h, Mathematics+Other
11099	Next Same-Factored	8.7h, Mathematics+Other
11282	*Mixing Invitations*	*8.7h, Mathematics+Other*
11415	Count the Factorials	8.7h, Mathematics+Other
11428	Cubes	8.7h, Mathematics+Other
12218	An Industrial Spy	8.7h, Mathematics+Other
12802	Gift From the Gods	8.7h, Mathematics+Other
digitdivision	digitdivision	8.7h, Mathematics+Other
dunglish	dunglish	8.7h, Mathematics+Other
emergency	*emergency*	*8.7h, Mathematics+Other*
highwaytomountfansipan	highwaytomountfansipan	8.7h, Mathematics+Other
industrialspy	*industrialspy*	*8.7h, Mathematics+Other*
jobbyte	jobbyte	8.7h, Mathematics+Other
megainversions	*megainversions*	*8.7h, Mathematics+Other*
ontrack	*ontrack*	*8.7h, Mathematics+Other*
thedealoftheday	thedealoftheday	8.7h, Mathematics+Other
youbethejudge	youbethejudge	8.7h, Mathematics+Other
00976	*Bridge Building*	*8.7i, Graph+DP*
10917	Walk Through the Forest	8.7i, Graph+DP

Both OJ	Problem Title	CP4
10937	Blackbeard the Pirate	*8.7i, Graph+DP*
10944	Nuts for nuts..	8.7i, Graph+DP
11284	Shopping Trip	8.7i, Graph+DP
11324	The Largest Clique	*8.7i, Graph+DP*
11331	The Joys of Farming	*8.7i, Graph+DP*
11405	Can U Win?	8.7i, Graph+DP
11643	Knight Tour	8.7i, Graph+DP
11693	Speedy Escape	8.7i, Graph+DP
11813	Shopping	8.7i, Graph+DP
dragonball1	dragonball1	8.7i, Graph+DP
ntnuorienteering	ntnuorienteering	8.7i, Graph+DP
shopping	shopping	8.7i, Graph+DP
speedyescape	speedyescape	8.7i, Graph+DP
treasurediving	treasurediving	*8.7i, Graph+DP*
walkforest	walkforest	*8.7i, Graph+DP*
00967	Circular	8.7j, Other+DP 1D RSQ/RMQ
10200	Prime Time	8.7j, Other+DP 1D RSQ/RMQ
10533	Digit Primes	*8.7j, Other+DP 1D RSQ/RMQ*
10871	Primed Subsequence	8.7j, Other+DP 1D RSQ/RMQ
10891	Game of Sum	*8.7j, Other+DP 1D RSQ/RMQ*
11032	Function Overloading	*8.7j, Other+DP 1D RSQ/RMQ*
11105	Semi-prime H-numbers	8.7j, Other+DP 1D RSQ/RMQ
11408	Count DePrimes	*8.7j, Other+DP 1D RSQ/RMQ*
12028	A Gift from the Setter	8.7j, Other+DP 1D RSQ/RMQ

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12904	Load Balancing	8.7j, Other+DP 1D RSQ/RMQ
centsavings	*centsavings*	*8.7j, Other+DP 1D RSQ/RMQ*
dvoniz	*dvoniz*	*8.7j, Other+DP 1D RSQ/RMQ*
eko	eko	8.7j, Other+DP 1D RSQ/RMQ
hnumbers	hnumbers	8.7j, Other+DP 1D RSQ/RMQ
ozljeda	ozljeda	8.7j, Other+DP 1D RSQ/RMQ
program	*program*	*8.7j, Other+DP 1D RSQ/RMQ*
sumandproduct	sumandproduct	8.7j, Other+DP 1D RSQ/RMQ
tiredterry	tiredterry	8.7j, Other+DP 1D RSQ/RMQ
00295	*Fatman*	*8.7k, Three++ Components, E*
01250	*Robot Challenge*	*8.7k, Three++ Components, E*
10856	*Recover Factorial*	*8.7k, Three++ Components, E*
10876	Factory Robot	8.7k, Three++ Components, E
11610	Reverse Prime	8.7k, Three++ Components, E
beeproblem	*beeproblem*	*8.7k, Three++ Components, E*
cpu	cpu	8.7k, Three++ Components, E
enviousexponents	enviousexponents	8.7k, Three++ Components, E
gettingthrough	*gettingthrough*	*8.7k, Three++ Components, E*
glyphrecognition	glyphrecognition	8.7k, Three++ Components, E
icpccamp	icpccamp	8.7k, Three++ Components, E
ljutnja	ljutnja	8.7k, Three++ Components, E
mobilization	mobilization	8.7k, Three++ Components, E
pyro	pyro	8.7k, Three++ Components, E
researchproductivityindex	*researchproductivityindex*	*8.7k, Three++ Components, E*

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wheels	wheels	8.7k, Three++ Components, E
00811	The Fortified Forest	8.7l, Three++ Components, H
01040	The Traveling Judges Probl...	8.7l, Three++ Components, H
01079	A Careful Approach	8.7l, Three++ Components, H
01093	Castles	8.7l, Three++ Components, H
11288	Carpool	8.7l, Three++ Components, H
12392	Guess the Numbers	8.7l, Three++ Components, H
carpool	carpool	8.7l, Three++ Components, H
clockpictures	clockpictures	8.7l, Three++ Components, H
guessthenumbers	guessthenumbers	8.7l, Three++ Components, H
installingapps	installingapps	8.7l, Three++ Components, H
sprocketscience	sprocketscience	8.7l, Three++ Components, H
tightlypacked	tightlypacked	8.7l, Three++ Components, H
weather	weather	8.7l, Three++ Components, H

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