Competitive Programming
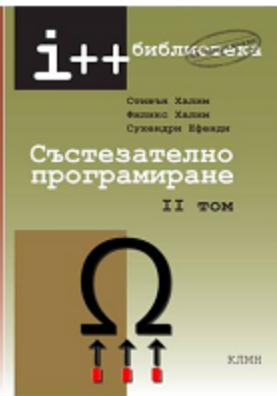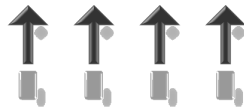
Methods to Solve (2000-present)

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

OJ: [Both ▾] , Topic: [DP-related ▾] , Quality: [All ▾]

Online Judge shown: Both
Problem topics shown: All Dynamic Programming-related Sections : Note that some problems in categories that are 'Dynamic Programming-related' may not be necessarily Dynamic Programming problems.
Problem Quality: All
Number of problems shown (initially in CP4 order): 447
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
00108	Maximum Sum	3.5a, Max 1D/2D Range Sum
00507	Jill Rides Again	3.5a, Max 1D/2D Range Sum

Both OJ	Problem Title	CP4
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	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	alicedigital	3.5a, Max 1D/2D Range Sum
commercials	commercials	*3.5a, Max 1D/2D Range Sum*
fieldtrip	fieldtrip	3.5a, Max 1D/2D Range Sum
foldedmap	foldedmap	3.5a, Max 1D/2D Range Sum
nered	nered	3.5a, Max 1D/2D Range Sum
prozor	prozor	*3.5a, Max 1D/2D Range Sum*
purplerain	purplerain	3.5a, Max 1D/2D Range Sum
sellingspatulas	sellingspatulas	*3.5a, Max 1D/2D Range Sum*
shortsell	shortsell	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

Both OJ	Problem Title	CP4
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	3.5b, LIS
11456	Trainsorting	3.5b, LIS
11790	*Murcia's Skyline*	*3.5b, LIS*
alphabet	alphabet	3.5b, LIS
increasingsubsequence	*increasingsubsequence*	*3.5b, LIS*
longincsubseq	longincsubseq	3.5b, LIS
manhattanmornings	manhattanmornings	3.5b, LIS
nesteddolls	*nesteddolls*	*3.5b, LIS*
trainsorting	*trainsorting*	*3.5b, LIS*
00431	Trial of the Millennium	3.5c, 0-1 KNAPSACK
00562	Dividing coins	3.5c, 0-1 KNAPSACK
00990	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

Both OJ	Problem Title	CP4
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	muzicari	3.5c, 0-1 KNAPSACK
ninepacks	ninepacks	3.5c, 0-1 KNAPSACK
orders	orders	3.5c, 0-1 KNAPSACK
presidentialelections	presidentialelections	3.5c, 0-1 KNAPSACK
00147	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
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	bagoftiles	3.5d, COIN-CHANGE
canonical	canonical	3.5d, COIN-CHANGE

Both OJ	Problem Title	CP4
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	*beepers*	*3.5e, TSP*
bustour	*bustour*	*3.5e, TSP*
cycleseasy	*cycleseasy*	*3.5e, TSP*
errands	*errands*	*3.5e, TSP*
maximizingyourpay	maximizingyourpay	3.5e, TSP
pokemongogo	pokemongogo	3.5e, TSP
race	race	3.5e, TSP
00116	Unidirectional TSP	3.5f, DP level 1
00196	Spreadsheet	3.5f, DP level 1
00215	Spreadsheet Calculator	3.5f, DP level 1
01261	String Popping	3.5f, DP level 1
10003	*Cutting Sticks*	*3.5f, DP level 1*
10036	Divisibility	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

Both OJ	Problem Title	CP4
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	3.5f, DP level 1
11420	Chest of Drawers	3.5f, DP level 1
11450	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	keyboardconcert	3.5f, DP level 1
nikola	nikola	3.5f, DP level 1
permutationdescent	permutationdescent	3.5f, DP level 1
spiderman	spiderman	3.5f, DP level 1
ticketpricing	ticketpricing	3.5f, DP level 1
weightofwords	weightofwords	3.5f, DP level 1
wordclouds	wordclouds	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

Both OJ	Problem Title	CP4
10164	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	3.5g, DP level 2
11908	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	3.5g, DP level 2
debugging	debugging	3.5g, DP level 2
drivinglanes	drivinglanes	3.5g, DP level 2
kutevi	kutevi	3.5g, DP level 2
tight	tight	3.5g, DP level 2
walrusweights	walrusweights	3.5g, DP level 2
watersheds	watersheds	3.5g, DP level 2
00103	Stacking Boxes	4.6a, S/Longest Paths on DAG
00452	Project Scheduling	4.6a, S/Longest Paths on DAG
10000	Longest Paths	4.6a, S/Longest Paths on DAG
10051	Tower of Cubes	4.6a, S/Longest Paths on DAG
10259	Hippity Hopscotch	4.6a, S/Longest Paths on DAG
10285	Longest Run on a Snowboard	4.6a, S/Longest Paths on DAG
10350	Liftless EME	4.6a, S/Longest Paths on DAG

Both OJ	Problem Title	CP4
baas	🦊 baas	4.6a, S/Longest Paths on DAG
excavatorexpedition	🦊 excavatorexpedition	4.6a, S/Longest Paths on DAG
fibtour	🦊 fibtour	4.6a, S/Longest Paths on DAG
monopoly	🦊 monopoly	4.6a, S/Longest Paths on DAG
mravi	🦊 mravi	4.6a, S/Longest Paths on DAG
safepassage	🦊 safepassage	4.6a, S/Longest Paths on DAG
savinguniverse	🦊 savinguniverse	4.6a, S/Longest Paths on DAG
00825	Walking on the Safe Side	4.6b, Counting Paths, Easier
00926	Walking Around Wisely	4.6b, Counting Paths, Easier
00986	How Many?	4.6b, Counting Paths, Easier
00988	Many Paths, One Destinatio...	4.6b, Counting Paths, Easier
10401	Injured Queen Problem	4.6b, Counting Paths, Easier
10544	Numbering the Paths	4.6b, Counting Paths, Easier
10564	Paths through the Hourglas...	4.6b, Counting Paths, Easier
10926	How Many Dependencies?	4.6b, Counting Paths, Easier
11067	Little Red Riding Hood	4.6b, Counting Paths, Easier
11569	Lovely Hint	4.6b, Counting Paths, Easier
11655	Waterland	4.6b, Counting Paths, Easier
11957	Checkers	4.6b, Counting Paths, Easier
compositions	🦊 compositions	4.6b, Counting Paths, Easier
helpfulcurrents	🦊 helpfulcurrents	4.6b, Counting Paths, Easier
marypartitions	🦊 marypartitions	4.6b, Counting Paths, Easier
robotsonagrid	🦊 robotsonagrid	4.6b, Counting Paths, Easier
runningsteps	🦊 runningsteps	4.6b, Counting Paths, Easier

Both OJ	Problem Title	CP4
scenes	🦊 [scenes](#)	4.6b, Counting Paths, Easier
00590	📘 [Always on the run](#)	4.6c, Conversion to DAG
00607	📄 [Scheduling Lectures](#)	4.6c, Conversion to DAG
00757	📄 [Gone Fishing](#)	4.6c, Conversion to DAG
00907	📘 [Winterim Backpacking Trip](#)	4.6c, Conversion to DAG
00910	📄 [TV game](#)	4.6c, Conversion to DAG
01025	📄 [A Spy in the Metro](#)	4.6c, Conversion to DAG
10201	📄 [Adventures in Moving - Par...](#)	4.6c, Conversion to DAG
10271	📄 [Chopsticks](#)	4.6c, Conversion to DAG
10543	📄 [Traveling Politician](#)	4.6c, Conversion to DAG
10681	📄 [Teobaldo's Trip](#)	4.6c, Conversion to DAG
10702	📄 [Travelling Salesman](#)	4.6c, Conversion to DAG
10874	📄 [Segments](#)	4.6c, Conversion to DAG
10913	📘 [Walking on a Grid](#)	4.6c, Conversion to DAG
11307	📄 [Alternative Arborescence](#)	4.6c, Conversion to DAG
11487	📄 [Gathering Food](#)	4.6c, Conversion to DAG
11545	📄 [Avoiding Jungle in the Dar...](#)	4.6c, Conversion to DAG
11782	📄 [Optimal Cut](#)	4.6c, Conversion to DAG
12875	📄 [Concert Tour](#)	4.6c, Conversion to DAG
13122	📄 [Funny Cardiologist](#)	4.6c, Conversion to DAG
cardmagic	🦊 [cardmagic](#)	4.6c, Conversion to DAG
drinkresponsibly	🦊 [drinkresponsibly](#)	4.6c, Conversion to DAG
maximizingwinnings	🦊 [maximizingwinnings](#)	4.6c, Conversion to DAG
quantumsuperposition	🦊 [quantumsuperposition](#)	4.6c, Conversion to DAG

Both OJ	Problem Title	CP4
shortestpath4	🦊 shortestpath4	4.6c, Conversion to DAG
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
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
anti11	🦊 anti11	5.4a, Fibonacci Numbers
batmanacci	🦊 batmanacci	5.4a, Fibonacci Numbers
rijeci	🦊 rijeci	5.4a, Fibonacci Numbers
00326	Extrapolation Using a Diff...	5.4b, Binomial Coefficients

Both OJ	Problem Title	CP4
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
election	election	5.4b, Binomial Coefficients
insert	insert	5.4b, Binomial Coefficients
lockedtreasure	lockedtreasure	5.4b, Binomial Coefficients
oddbinom	oddbinom	5.4b, Binomial Coefficients
perica	perica	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
10303	How Many Trees?	5.4c, Catalan Numbers
10312	Expression Bracketing	5.4c, Catalan Numbers
10643	Facing Problem With Trees	5.4c, Catalan Numbers
catalan	catalan	5.4c, Catalan Numbers
catalansquare	catalansquare	5.4c, Catalan Numbers
fiat	fiat	5.4c, Catalan Numbers

Both OJ	Problem Title	CP4
01636	Headshot	5.5a, Probability, Easier
10238	Throw the Dice	5.5a, Probability, Easier
10328	Coin Toss	5.5a, Probability, Easier
10491	Cows and Cars	5.5a, Probability, Easier
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

Both OJ	Problem Title	CP4
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*
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
00164	String Computer	6.3a, DP String, Classic
00526	String Distance and Transf...	6.3a, DP String, Classic
00531	Compromise	6.3a, DP String, Classic
01192	Searching Sequence Databas...	*6.3a, DP String, Classic*
01207	AGTC	6.3a, DP String, Classic
01244	Palindromic paths	6.3a, DP String, Classic
10066	The Twin Towers	6.3a, DP String, Classic
10100	Longest Match	6.3a, DP String, Classic

Both OJ	Problem Title	CP4
10192	Vacation	6.3a, DP String, Classic
10405	Longest Common Subsequence	6.3a, DP String, Classic
10635	Prince and Princess	6.3a, DP String, Classic
12747	Back to Edit Distance	6.3a, DP String, Classic
13146	Edid Tistance	6.3a, DP String, Classic
inflagrantedelicto	inflagrantedelicto	6.3a, DP String, Classic
ls	ls	6.3a, DP String, Classic
pandachess	pandachess	6.3a, DP String, Classic
princeandprincess	princeandprincess	6.3a, DP String, Classic
signals	signals	6.3a, DP String, Classic
11022	String Factoring	6.3b, DP String, Non Classic
11081	Strings	6.3b, DP String, Non Classic
11084	Anagram Division	6.3b, DP String, Non Classic
11258	String Partition	6.3b, DP String, Non Classic
11361	Investigating Div-Sum Prop...	6.3b, DP String, Non Classic
11552	Fewest Flops	6.3b, DP String, Non Classic
12855	Black and white stones	6.3b, DP String, Non Classic
cudak	cudak	6.3b, DP String, Non Classic
digitsum	digitsum	6.3b, DP String, Non Classic
exam	exam	6.3b, DP String, Non Classic
haiku	haiku	6.3b, DP String, Non Classic
heritage	heritage	6.3b, DP String, Non Classic
hillnumbers	hillnumbers	6.3b, DP String, Non Classic
stringfactoring	stringfactoring	6.3b, DP String, Non Classic

Both OJ	Problem Title	CP4
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
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

Both OJ	Problem Title	CP4
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
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

Both OJ	Problem Title	CP4
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
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

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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
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

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tightfitsudoku	tightfitsudoku	8.6a, NP-hard/C, small, E
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
00976	Bridge Building	8.7i, Graph+DP
10917	Walk Through the Forest	8.7i, Graph+DP
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

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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
10934	Dropping water balloons	9.eggd, Egg Dropping Puzzle
batteries	batteries	9.eggd, Egg Dropping Puzzle
powereggs	powereggs	9.eggd, Egg Dropping Puzzle
00348	Optimal Array Multiplicati...	9.matr, Matrix Chain Mult

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