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: DP-related 🕶 , Quality: Starred 🕶

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: Starred

Number of problems shown (initially in CP4 order): 168

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 rentries		Search:
Both OJ	Problem Title	CP4
00787	Maximum Sub-sequence Produ	3.5a, Max 1D/2D Range Sum
01105	Coffee Central	3.5a, Max 1D/2D Range Sum

Both OJ	Problem Title	CP4
10684	The jackpot	3.5a, Max 1D/2D Range Sum
10755	Garbage Heap	3.5a, Max 1D/2D Range Sum
commercials	<u>commercials</u>	3.5a, Max 1D/2D Range Sum
prozor	<u>prozor</u>	3.5a, Max 1D/2D Range Sum
sellingspatulas	<u>sellingspatulas</u>	3.5a, Max 1D/2D Range Sum
00481	What Goes Up	3.5b, LIS
01196	Tiling Up Blocks	3.5b, LIS
10534	Wavio Sequence	3.5b, LIS
11790	Murcia's Skyline	3.5b, LIS
increasingsubsequence	<u>increasingsubsequence</u>	3.5b, LIS
nesteddolls	<u>nesteddolls</u>	3.5b, LIS
trainsorting	<u>trainsorting</u>	3.5b, LIS
01213	Sum of Different Primes	3.5c, 0-1 KNAPSACK
10130	SuperSale	3.5c, 0-1 KNAPSACK
11566	Let's Yum Cha!	3.5c, 0-1 KNAPSACK
11832	Account Book	3.5c, 0-1 KNAPSACK
knapsack	<u>knapsack</u>	3.5c, 0-1 KNAPSACK
orders	orders orders	3.5c, 0-1 KNAPSACK
presidentialelections	presidentialelections	3.5c, 0-1 KNAPSACK
00242	Stamps and Envelope Size	3.5d, COIN-CHANGE
00674	Coin Change	3.5d, COIN-CHANGE
10448	Unique World	3.5d, COIN-CHANGE
11259	Coin Changing Again	3.5d, COIN-CHANGE
bagoftiles	<u>bagoftiles</u>	3.5d, COIN-CHANGE

Both OJ	Problem Title	CP4
canonical	<u>canonical</u>	3.5d, COIN-CHANGE
exactchange2	exactchange2	3.5d, COIN-CHANGE
00216	Getting in Line	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
10003	Cutting Sticks	3.5f, DP level 1
10912	Simple Minded Hashing	3.5f, DP level 1
11420	Chest of Drawers	3.5f, DP level 1
13141	Growing Trees	3.5f, DP level 1
nikola	<u>nikola</u>	3.5f, DP level 1
spiderman	<u>spiderman</u>	3.5f, DP level 1
ticketpricing	<u>ticketpricing</u>	3.5f, DP level 1
00662	Fast Food	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
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
00452	Project Scheduling	4.6a, S/Longest Paths on DAG

Both OJ	Problem Title	CP4
10259	Hippity Hopscotch	4.6a, S/Longest Paths on DAG
10350	Liftless EME	4.6a, S/Longest Paths on DAG
fibtour	<u>fibtour</u>	4.6a, S/Longest Paths on DAG
mravi	<u>mravi</u>	4.6a, S/Longest Paths on DAG
safepassage	<u>safepassage</u>	4.6a, S/Longest Paths on DAG
00825	Walking on the Safe Side	4.6b, Counting Paths, Easier
10544	Numbering the Paths	4.6b, Counting Paths, Easier
11569	Lovely Hint	4.6b, Counting Paths, Easier
11957	Checkers Online Judge Checkers	4.6b, Counting Paths, Easier
robotsonagrid	<u>robotsonagrid</u>	4.6b, Counting Paths, Easier
runningsteps	<u>runningsteps</u>	4.6b, Counting Paths, Easier
scenes	<u>scenes</u>	4.6b, Counting Paths, Easier
00590	Always on the run	4.6c, Conversion to DAG
00907	Winterim Backpacking Trip	4.6c, Conversion to DAG
10913	Walking on a Grid	4.6c, Conversion to DAG
12875	Concert Tour	4.6c, Conversion to DAG
cardmagic	<u>sardmagic</u>	4.6c, Conversion to DAG
drinkresponsibly	<u>arinkresponsibly</u>	4.6c, Conversion to DAG
maximizingwinnings	<u>maximizingwinnings</u>	4.6c, Conversion to DAG
00495	Fibonacci Freeze	5.4a, Fibonacci Numbers
00763	Fibinary Numbers	5.4a, Fibonacci Numbers
10334	Ray Through Glasses	5.4a, Fibonacci Numbers
10689	Yet another Number Sequenc	5.4a, Fibonacci Numbers
anti11	anti11	5.4a, Fibonacci Numbers

Both OJ	Problem Title	CP4
batmanacci	<u>batmanacci</u>	5.4a, Fibonacci Numbers
rijeci	<u>rijeci</u>	5.4a, Fibonacci Numbers
00369	Combinations Combinations	5.4b, Binomial Coefficients
10541	Stripe online Judge	5.4b, Binomial Coefficients
11955	Binomial Theorem	5.4b, Binomial Coefficients
12712	Pattern Locker online Judge	5.4b, Binomial Coefficients
election	<u>election</u>	5.4b, Binomial Coefficients
lockedtreasure	<u>lockedtreasure</u>	5.4b, Binomial Coefficients
oddbinom	oddbinom oddbinom	5.4b, Binomial Coefficients
00991	Safe Salutations	5.4c, Catalan Numbers
10007	Count the Trees	5.4c, Catalan Numbers
10223	How many nodes ?	5.4c, Catalan Numbers
10312	Expression Bracketing	5.4c, Catalan Numbers
catalan	<u>Catalan</u>	5.4c, Catalan Numbers
catalansquare	<u>catalansquare</u>	5.4c, Catalan Numbers
fiat	S fiat	5.4c, Catalan Numbers
01636	Headshot Online Judge	5.5a, Probability, Easier
10238	Throw the Dice	5.5a, Probability, Easier
10491	Cows and Cars	5.5a, Probability, Easier
11181	Probability Given	5.5a, Probability, Easier
bobby	bobby	5.5a, Probability, Easier
dicebetting	<u>dicebetting</u>	5.5a, Probability, Easier
odds	odds odds	5.5a, Probability, Easier
10056	What is the Probability?	5.5b, Probability, Harder

Both OJ	Problem Title	CP4
10648	Chocolate Box	5.5b, Probability, Harder
11176	Winning Streak Online Judge	5.5b, Probability, Harder
11628	Another lottery	5.5b, Probability, Harder
anthony	<u>anthony</u>	5.5b, Probability, Harder
goodcoalition	<u>goodcoalition</u>	5.5b, Probability, Harder
lostinthewoods	<u>lostinthewoods</u>	5.5b, Probability, Harder
01192	Searching Sequence Databas	6.3a, DP String, Classic
10405	Longest Common Subsequence	6.3a, DP String, Classic
12747	Back to Edit Distance	6.3a, DP String, Classic
13146	Edid Tistance	6.3a, DP String, Classic
inflagrantedelicto	<u>inflagrantedelicto</u>	6.3a, DP String, Classic
pandachess	<u>pandachess</u>	6.3a, DP String, Classic
princeandprincess	<u>princeandprincess</u>	6.3a, DP String, 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
exam	<u>exam</u>	6.3b, DP String, Non Classic
heritage	<u>heritage</u>	6.3b, DP String, Non Classic
hillnumbers	<u>hillnumbers</u>	6.3b, DP String, Non Classic
stringfactoring	stringfactoring	6.3b, DP String, Non Classic
00672	Gangsters Gangsters	8.3a, DP level 3
01172	The Bridges of Kolsberg.	8.3a, DP level 3
01211	Atomic Car Race	8.3a, DP level 3
10645	online Judge Menu	8.3a, DP level 3

Both OJ	Problem Title	CP4
aspenavenue	<u>aspenavenue</u>	8.3a, DP level 3
busticket	<u>busticket</u>	8.3a, DP level 3
01238	Free Parentheses	8.3b, DP level 4
10304	Optimal Binary Search Tree	8.3b, DP level 4
12870	Fishing.	8.3b, DP level 4
coke	<u>coke</u>	8.3b, DP level 4
companypicnic	<u>companypicnic</u>	8.3b, DP level 4
rollercoasterfun	<u>rollercoasterfun</u>	8.3b, DP level 4
00702	The Vindictive Coach	8.3c, Counting Paths, Harder
11125	Arrange Some Marbles	8.3c, Counting Paths, Harder
11375	online storge Matches	8.3c, Counting Paths, Harder
11432	Busy Programmer	8.3c, Counting Paths, Harder
countcircuits	<u>countcircuits</u>	8.3c, Counting Paths, Harder
favourable	<u>favourable</u>	8.3c, Counting Paths, Harder
pachinkoprobability	<u>pachinkoprobability</u>	8.3c, Counting Paths, Harder
01099	Sharing Chocolate	8.3d, DP with Bitmask
01252	Twenty Questions	8.3d, DP with Bitmask
10911	Forming Quiz Teams	8.3d, DP with Bitmask
11825	Hackers' Crackdown	8.3d, DP with Bitmask
hidingchickens	<u> hidingchickens</u>	8.3d, DP with Bitmask
narrowartgallery	<u>narrowartgallery</u>	8.3d, DP with Bitmask
pebblesolitaire2	pebblesolitaire2	8.3d, DP with Bitmask
00989	Su Doku	8.6a, NP-hard/C, small, E
11088	End up with More Teams	8.6a, NP-hard/C, small, E

Both OJ	Problem Title	CP4
12455	Colline Judge Bars	8.6a, NP-hard/C, small, E
equalsumseasy	<u>equalsumseasy</u>	8.6a, NP-hard/C, small, E
flowfree	<u>flowfree</u>	8.6a, NP-hard/C, small, E
font	<u>font</u>	8.6a, NP-hard/C, small, E
socialadvertising	<u>socialadvertising</u>	8.6a, NP-hard/C, small, E
01098	Robots on Ice	8.6b, NP-hard/C, small, H
10571	Products Online Judge Products	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	<u>beanbag</u>	8.6b, NP-hard/C, small, H
busplanning	<u>busplanning</u>	8.6b, NP-hard/C, small, H
programmingteamselection	programmingteamselection	8.6b, NP-hard/C, small, H
00976	Bridge Building	8.7i, Graph+DP
10937	Blackbeard the Pirate	8.7i, Graph+DP
11324	The Largest Clique	8.7i, Graph+DP
11331	The Joys of Farming	8.7i, Graph+DP
treasurediving	<u>treasurediving</u>	8.7i, Graph+DP
walkforest	<u>walkforest</u> walkforest	8.7i, Graph+DP
10934	Dropping water balloons	9.eggd, Egg Dropping Puzzle
batteries	<u>batteries</u>	9.eggd, Egg Dropping Puzzle
powereggs	<u>powereggs</u>	9.eggd, Egg Dropping Puzzle
00348	Optimal Array Multiplicati	9.matr, Matrix Chain Mult
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