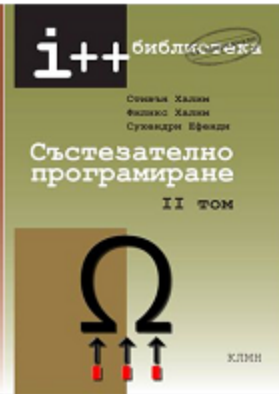# Competitive Programming

Methods to Solve (2000-present)

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

OJ: [Both ▾] , Topic: [Chapter 4 ▾] , Quality: [Starred ▾]

Online Judge shown: Both
Problem topics shown: Chapter 4 : Graph only
Problem Quality: Starred
Number of problems shown (initially in CP4 order): 167
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
00459	Graph Connectivity	4.2a, Finding CCs
11749	Poor Trade Advisor	4.2a, Finding CCs
11906	Knight in a War Grid	4.2a, Finding CCs

Both OJ	Problem Title	CP4
dominoes2	🐱 dominoes2	4.2a, Finding CCs
reachableroads	🐱 reachableroads	4.2a, Finding CCs
terraces	🐱 terraces	4.2a, Finding CCs
wheresmyinternet	🐱 wheresmyinternet	4.2a, Finding CCs
00352	The Seasonal War	4.2b, Flood Fill, Easier
00572	Oil Deposits	4.2b, Flood Fill, Easier
00871	Counting Cells in a Blob	4.2b, Flood Fill, Easier
11953	Battleships	4.2b, Flood Fill, Easier
amoebas	🐱 amoebas	4.2b, Flood Fill, Easier
countingstars	🐱 countingstars	4.2b, Flood Fill, Easier
gold	🐱 gold	4.2b, Flood Fill, Easier
00852	Deciding victory in Go	4.2c, Flood Fill, Harder
01103	Ancient Messages	4.2c, Flood Fill, Harder
10kindsofpeople	🐱 10kindsofpeople	4.2c, Flood Fill, Harder
11094	Continents	4.2c, Flood Fill, Harder
11585	Nurikabe	4.2c, Flood Fill, Harder
coast	🐱 coast	4.2c, Flood Fill, Harder
islands3	🐱 islands3	4.2c, Flood Fill, Harder
00200	Rare Order	4.2d, Topological Sort
00872	Ordering	4.2d, Topological Sort
11060	Beverages	4.2d, Topological Sort
brexit	🐱 brexit	4.2d, Topological Sort
builddeps	🐱 builddeps	4.2d, Topological Sort
conservation	🐱 conservation	4.2d, Topological Sort

Both OJ	Problem Title	CP4
pickupsticks	pickupsticks	4.2d, Topological Sort
10004	Bicoloring	4.2e, Graph Properties Check
10116	Robot Motion	4.2e, Graph Properties Check
10505	Montesco vs Capuleto	4.2e, Graph Properties Check
hoppers	hoppers	4.2e, Graph Properties Check
molekule	molekule	4.2e, Graph Properties Check
runningmom	runningmom	4.2e, Graph Properties Check
torn2pieces	torn2pieces	4.2e, Graph Properties Check
00315	Network	4.2f, Cut Vertices/Bridges
10765	Doves and bombs	4.2f, Cut Vertices/Bridges
12363	Hedge Mazes	4.2f, Cut Vertices/Bridges
12783	Weak Links	4.2f, Cut Vertices/Bridges
birthday	birthday	4.2f, Cut Vertices/Bridges
caveexploration	caveexploration	4.2f, Cut Vertices/Bridges
intercept	intercept	4.2f, Cut Vertices/Bridges
00247	Calling Circles	4.2g, Finding SCCs
11709	Trust groups	4.2g, Finding SCCs
11770	Lighting Away	4.2g, Finding SCCs
11838	Come and Go	4.2g, Finding SCCs
cantinaofbabel	cantinaofbabel	4.2g, Finding SCCs
dominos	dominos	4.2g, Finding SCCs
equivalences	equivalences	4.2g, Finding SCCs
00824	Coast Tracker	4.2h, Really Ad Hoc
11831	Sticker Collector Robot	4.2h, Really Ad Hoc

Both OJ	Problem Title	CP4
12376	As Long as I Learn, I Live	4.2h, Really Ad Hoc
12442	Forwarding Emails	4.2h, Really Ad Hoc
faultyrobot	faultyrobot	4.2h, Really Ad Hoc
promotions	promotions	4.2h, Really Ad Hoc
succession	succession	4.2h, Really Ad Hoc
11228	Transportation system.	4.3a, MST, Standard
11631	Dark roads	4.3a, MST, Standard
11747	Heavy Cycle Edges	4.3a, MST, Standard
cats	cats	4.3a, MST, Standard
islandhopping	islandhopping	4.3a, MST, Standard
lostmap	lostmap	4.3a, MST, Standard
minspantree	minspantree	4.3a, MST, Standard
01013	Island Hopping	4.3b, MST, Variants
01265	Tour Belt	4.3b, MST, Variants
10048	Audiophobia	4.3b, MST, Variants
10457	Magic Car	4.3b, MST, Variants
millionairemadness	millionairemadness	4.3b, MST, Variants
muddyhike	muddyhike	4.3b, MST, Variants
naturereserve	naturereserve	4.3b, MST, Variants
00336	A Node Too Far	4.4a, SSSP, BFS, Easier
00429	Word Transformation	4.4a, SSSP, BFS, Easier
10653	Bombs! NO they are Mines!!	4.4a, SSSP, BFS, Easier
12160	Unlock the Lock	4.4a, SSSP, BFS, Easier
buttonbashing	buttonbashing	4.4a, SSSP, BFS, Easier

Both OJ	Problem Title	CP4
grid	🐱 grid	4.4a, SSSP, BFS, Easier
horror	🐱 horror	4.4a, SSSP, BFS, Easier
11352	Crazy King	4.4b, SSSP, BFS, Harder
11792	Krochanska is Here!	4.4b, SSSP, BFS, Harder
12826	Incomplete Chessboard	4.4b, SSSP, BFS, Harder
fire2	🐱 fire2	4.4b, SSSP, BFS, Harder
lost	🐱 lost	4.4b, SSSP, BFS, Harder
mallmania	🐱 mallmania	4.4b, SSSP, BFS, Harder
oceancurrents	🐱 oceancurrents	4.4b, SSSP, BFS, Harder
00439	Knight Moves	4.4c, Knight Moves
00633	A Chess Knight	4.4c, Knight Moves
10426	Knights' Nightmare	4.4c, Knight Moves
10477	The Hybrid Knight	4.4c, Knight Moves
grasshopper	🐱 grasshopper	4.4c, Knight Moves
hidingplaces	🐱 hidingplaces	4.4c, Knight Moves
01112	Mice and Maze	4.4d, SSSP, Dijkstra, Easier
10986	Sending email	4.4d, SSSP, Dijkstra, Easier
13127	Bank Robbery	4.4d, SSSP, Dijkstra, Easier
flowerytrails	🐱 flowerytrails	4.4d, SSSP, Dijkstra, Easier
shortestpath1	🐱 shortestpath1	4.4d, SSSP, Dijkstra, Easier
shortestpath2	🐱 shortestpath2	4.4d, SSSP, Dijkstra, Easier
texassummers	🐱 texassummers	4.4d, SSSP, Dijkstra, Easier
00589	Pushing Boxes	4.4e, SSSP, Dijkstra, Harder
12047	Highest Paid Toll	4.4e, SSSP, Dijkstra, Harder

Both OJ	Problem Title	CP4
12950	Even Obsession	4.4e, SSSP, Dijkstra, Harder
blockcrusher	blockcrusher	4.4e, SSSP, Dijkstra, Harder
emptyingbaltic	emptyingbaltic	4.4e, SSSP, Dijkstra, Harder
invasion	invasion	4.4e, SSSP, Dijkstra, Harder
visualgo	visualgo	4.4e, SSSP, Dijkstra, Harder
00558	Wormholes	4.4f, SSSP, -ve weight
10449	Traffic	4.4f, SSSP, -ve weight
11280	Flying to Fredericton	4.4f, SSSP, -ve weight
12768	Inspired Procrastination	4.4f, SSSP, -ve weight
hauntedgraveyard	hauntedgraveyard	4.4f, SSSP, -ve weight
shortestpath3	shortestpath3	4.4f, SSSP, -ve weight
xyzzy	xyzzy	4.4f, SSSP, -ve weight
00821	Page Hopping	4.5a, APSP, Standard
01247	Interstar Transport	4.5a, APSP, Standard
10354	Avoiding Your Boss	4.5a, APSP, Standard
11463	Commandos	4.5a, APSP, Standard
allpairspath	allpairspath	4.5a, APSP, Standard
importspaghetti	importspaghetti	4.5a, APSP, Standard
transportationplanning	transportationplanning	4.5a, APSP, Standard
00869	Airline Comparison	4.5b, APSP, Variants
01056	Degrees of Separation	4.5b, APSP, Variants
10342	Always Late	4.5b, APSP, Variants
10987	Antifloyd	4.5b, APSP, Variants
arbitrage	arbitrage	4.5b, APSP, Variants

Both OJ	Problem Title	CP4
kastenlauf	🐱 *kastenlauf*	*4.5b, APSP, Variants*
secretchamber	🐱 *secretchamber*	*4.5b, APSP, Variants*
00452	📘 *Project Scheduling*	*4.6a, S/Longest Paths on DAG*
10259	📘 *Hippity Hopscotch*	*4.6a, S/Longest Paths on DAG*
10350	📘 *Liftless EME*	*4.6a, S/Longest Paths on DAG*
fibtour	🐱 *fibtour*	*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*
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*	*4.6b, Counting Paths, Easier*
robotsonagrid	🐱 *robotsonagrid*	*4.6b, Counting Paths, Easier*
runningsteps	🐱 *runningsteps*	*4.6b, Counting Paths, Easier*
scenes	🐱 *scenes*	*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	🐱 *cardmagic*	*4.6c, Conversion to DAG*
drinkresponsibly	🐱 *drinkresponsibly*	*4.6c, Conversion to DAG*
maximizingwinnings	🐱 *maximizingwinnings*	*4.6c, Conversion to DAG*
00536	📘 *Tree Recovery*	*4.6d, Tree*
10805	📘 *Cockroach Escape Networks*	*4.6d, Tree*

Both OJ	Problem Title	CP4
11695	Flight Planning	4.6d, Tree
12347	Binary Search Tree	4.6d, Tree
12379	Central Post Office	4.6d, Tree
adjoin	adjoin	4.6d, Tree
flight	flight	4.6d, Tree
tourists	tourists	4.6d, Tree
00670	The dog task	4.6e, Bipartite Graph
11138	Nuts and Bolts	4.6e, Bipartite Graph
12644	Vocabulary	4.6e, Bipartite Graph
12668	Attacking rooks	4.6e, Bipartite Graph
bookclub	bookclub	4.6e, Bipartite Graph
escapeplan	escapeplan	4.6e, Bipartite Graph
flippingcards	flippingcards	4.6e, Bipartite Graph
00291	The House Of Santa Claus	4.6f, Eulerian Graph
10054	The Necklace	4.6f, Eulerian Graph
10203	Snow Clearing	4.6f, Eulerian Graph
10596	Morning Walk	4.6f, Eulerian Graph
catenyms	catenyms	4.6f, Eulerian Graph
eulerianpath	eulerianpath	4.6f, Eulerian Graph
railroad2	railroad2	4.6f, Eulerian Graph

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