

Competitive Programming







Methods to Solve (2000-present)

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

OJ: Both , Topic: NUS CS2040 , Quality: All

Online Judge shown: Both

Problem topics shown: NUS CS2040/C/S: (Basic) Data Structures and Algorithms level: 1D/2D Array/Vector,

Sorting, Linked List, Binary Heap, Hash Table, Binary Search Tree, Graph DS, Graph Traversal, SSSP

Problem Quality: All

Number of problems shown (initially in CP4 order): 648

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 ventries		Search:	
Both OJ	Problem Title	CP4	
00414	Machined Surfaces	2.2a, 1D Array, Medium	
00482	Permutation Arrays	2.2a, 1D Array, Medium	

Both OJ	Problem Title	CP4
00591	Box of Bricks	2.2a, 1D Array, Medium
10038	Jolly Jumpers	2.2a, 1D Array, Medium
10050	Martals Hartals	2.2a, 1D Array, Medium
11192	Group Reverse	2.2a, 1D Array, Medium
11496	Musical Loop	2.2a, 1D Array, Medium
11608	No Problem	2.2a, 1D Array, Medium
11875	Brick Game	2.2a, 1D Array, Medium
12150	Pole Position	2.2a, 1D Array, Medium
12356	Army Buddies	2.2a, 1D Array, Medium
12854	Automated Checking Machine	2.2a, 1D Array, Medium
12959	Strategy Game	2.2a, 1D Array, Medium
12996	Ultimate Mango Challenge	2.2a, 1D Array, Medium
13026	Search the Khoj	2.2a, 1D Array, Medium
13181	Sleeping in hostels	2.2a, 1D Array, Medium
baloni	<u>baloni</u>	2.2a, 1D Array, Medium
downtime	<u>downtime</u>	2.2a, 1D Array, Medium
erase	erase erase	2.2a, 1D Array, Medium
fluortanten	<u>fluortanten</u>	2.2a, 1D Array, Medium
greedilyincreasing	greedilyincreasing	2.2a, 1D Array, Medium
jollyjumpers	<u>jollyjumpers</u>	2.2a, 1D Array, Medium
rankproblem	<u>rankproblem</u>	2.2a, 1D Array, Medium
trackingshares	<u>trackingshares</u>	2.2a, 1D Array, Medium
00230	Borrowers Borrowers	2.2b, 1D Array, Harder
00394	Mapmaker Mapmaker	2.2b, 1D Array, Harder

Both OJ	Problem Title	CP4
00467	Synching Signals	2.2b, 1D Array, Harder
00665	False coin	2.2b, 1D Array, Harder
00946	A Pile of Boxes	2.2b, 1D Array, Harder
10978	Let's Play Magic!	2.2b, 1D Array, Harder
11093	Just Finish it up	2.2b, 1D Array, Harder
11222	Only I did it!	2.2b, 1D Array, Harder
11850	Alaska Alaska	2.2b, 1D Array, Harder
12662	Good Teacher Online Judge	2.2b, 1D Array, Harder
13048	Burger Stand	2.2b, 1D Array, Harder
astro	<u>astro</u>	2.2b, 1D Array, Harder
crashingrobots	<u>crashingrobots</u>	2.2b, 1D Array, Harder
divideby100	divideby100	2.2b, 1D Array, Harder
flippingpatties	<u>flippingpatties</u>	2.2b, 1D Array, Harder
inverteddeck	<u>inverteddeck</u>	2.2b, 1D Array, Harder
keypad	<u>keypad</u>	2.2b, 1D Array, Harder
mastermind	<u>mastermind</u>	2.2b, 1D Array, Harder
physicalmusic	<u>physicalmusic</u>	2.2b, 1D Array, Harder
piperotation	<u>piperotation</u>	2.2b, 1D Array, Harder
pivot	<u>pivot</u>	2.2b, 1D Array, Harder
queens	<u>queens</u>	2.2b, 1D Array, Harder
rockband	<u>rockband</u>	2.2b, 1D Array, Harder
upsanddownsofinvesting	<u>upsanddownsofinvesting</u>	2.2b, 1D Array, Harder
00541	Error Correction	2.2c, 2D Array, Easier
00585	Triangles	2.2c, 2D Array, Easier

Both OJ	Problem Title	CP4
10703	Free spots	2.2c, 2D Array, Easier
10920	Spiral Tap	2.2c, 2D Array, Easier
11040	Add bricks in the wall	2.2c, 2D Array, Easier
11349	Symmetric Matrix	2.2c, 2D Array, Easier
11581	Grid Successors	2.2c, 2D Array, Easier
11835	Formula 1	2.2c, 2D Array, Easier
12187	Brothers Online Judge	2.2c, 2D Array, Easier
12667	Last Blood	2.2c, 2D Array, Easier
12981	Secret Master Plan	2.2c, 2D Array, Easier
compromise	compromise	2.2c, 2D Array, Easier
epigdanceoff	<u>epigdanceoff</u>	2.2c, 2D Array, Easier
flowshop	<u>flowshop</u>	2.2c, 2D Array, Easier
imageprocessing	<u>imageprocessing</u>	2.2c, 2D Array, Easier
nineknights	<u>nineknights</u>	2.2c, 2D Array, Easier
thisaintyourgrandpascheckerboard	thisaintyourgrandpaschecke	2.2c, 2D Array, Easier
00101	The Blocks Problem	2.2d, 2D Array, Harder
00434	Matty's Blocks	2.2d, 2D Array, Harder
00466	Mirror, Mirror	2.2d, 2D Array, Harder
00512	Spreadsheet Tracking	2.2d, 2D Array, Harder
00707	Robbery Robbery	2.2d, 2D Array, Harder
10016	Flip-Flop the Squarelotron	2.2d, 2D Array, Harder
10855	Rotated square	2.2d, 2D Array, Harder
11360	Have Fun with Matrices	2.2d, 2D Array, Harder
12291	Polyomino Composer	2.2d, 2D Array, Harder

Both OJ	Problem Title	CP4
12398	NumPuzz I	2.2d, 2D Array, Harder
2048	<u>2048</u>	2.2d, 2D Array, Harder
apples	<u>apples</u>	2.2d, 2D Array, Harder
falcondive	<u>falcondive</u>	2.2d, 2D Array, Harder
flagquiz	<u> flagquiz</u>	2.2d, 2D Array, Harder
funhouse	<u>funhouse</u>	2.2d, 2D Array, Harder
prva	prva prva	2.2d, 2D Array, Harder
rings2	<u>rings2</u>	2.2d, 2D Array, Harder
tetris	tetris tetris	2.2d, 2D Array, Harder
00400	Unix Is	2.2e, Sorting, Easier
00855	Lunch in Grid City	2.2e, Sorting, Easier
10107	What is the Median?	2.2e, Sorting, Easier
10880	Colin and Ryan	2.2e, Sorting, Easier
10905	Children's Game	2.2e, Sorting, Easier
11039	Building designing	2.2e, Sorting, Easier
11588	Image Coding	2.2e, Sorting, Easier
11777	Automate the Grades	2.2e, Sorting, Easier
11824	A Minimum Land Price	2.2e, Sorting, Easier
12071	Understanding Recursion	2.2e, Sorting, Easier
12541	Birthdates Dalline Judge	2.2e, Sorting, Easier
12709	Falling Ants	2.2e, Sorting, Easier
12861	Help cupid Melp cupid	2.2e, Sorting, Easier
13113	Presidential Election	2.2e, Sorting, Easier
basicprogramming2	<u>basicprogramming2</u>	2.2e, Sorting, Easier

Both OJ	Problem Title	CP4
closingtheloop	<u>closingtheloop</u>	2.2e, Sorting, Easier
cups	<u>cups</u>	2.2e, Sorting, Easier
height	<u>height</u>	2.2e, Sorting, Easier
judging	j <u>udging</u>	2.2e, Sorting, Easier
magictrick	<u>magictrick</u>	2.2e, Sorting, Easier
mjehuric	<u>mjehuric</u>	2.2e, Sorting, Easier
musicaltrees	<u>musicaltrees</u>	2.2e, Sorting, Easier
nothanks	<u>nothanks</u>	2.2e, Sorting, Easier
sidewayssorting	<u>sidewayssorting</u>	2.2e, Sorting, Easier
00123	Searching Quickly	2.2f, Sorting, Harder
00450	Little Black Book	2.2f, Sorting, Harder
00790	Head Judge Headache	2.2f, Sorting, Harder
01610	Party Games	2.2f, Sorting, Harder
10194	Football (aka Soccer)	2.2f, Sorting, Harder
10258	Contest Scoreboard	2.2f, Sorting, Harder
10698	Football Sort	2.2f, Sorting, Harder
11300	Spreading the Wealth	2.2f, Sorting, Harder
11321	Sort! Sort!! and Sort!!!	2.2f, Sorting, Harder
12269	Lawn mower	2.2f, Sorting, Harder
addemup	<u>addemup</u>	2.2f, Sorting, Harder
booking	booking	2.2f, Sorting, Harder
chartingprogress	<u>chartingprogress</u>	2.2f, Sorting, Harder
classy	<u>Classy</u>	2.2f, Sorting, Harder
dirtydriving	dirtydriving	2.2f, Sorting, Harder

Both OJ	Problem Title	CP4
dyslectionary	<u>dyslectionary</u>	2.2f, Sorting, Harder
gearchanging	gearchanging	2.2f, Sorting, Harder
includescoring	includescoring	2.2f, Sorting, Harder
lawnmower	<u>lawnmower</u>	2.2f, Sorting, Harder
longswaps	<u>longswaps</u>	2.2f, Sorting, Harder
musicyourway	<u>musicyourway</u>	2.2f, Sorting, Harder
sortofsorting	<u>sortofsorting</u>	2.2f, Sorting, Harder
zipfsong	<u>zipfsong</u>	2.2f, Sorting, Harder
00299	Train Swapping	2.2g, Special Sorting
00612	DNA Sorting.	2.2g, Special Sorting
10327	Flip Sort	2.2g, Special Sorting
10810	Ultra-QuickSort	2.2g, Special Sorting
11462	online Judge Age Sort	2.2g, Special Sorting
11495	Bubbles and Buckets	2.2g, Special Sorting
11858	Frosh Week	2.2g, Special Sorting
13212	How many inversions?	2.2g, Special Sorting
bread	<u>bread</u>	2.2g, Special Sorting
excursion	<u>excursion</u>	2.2g, Special Sorting
froshweek	froshweek	2.2g, Special Sorting
gamenight	<u>gamenight</u>	2.2g, Special Sorting
mali	<u>mali</u>	2.2g, Special Sorting
sort	<u>sort</u>	2.2g, Special Sorting
ultraquicksort	<u>ultraquicksort</u>	2.2g, Special Sorting
00127	"Accordian" Patience	2.2j, Stack

Both OJ	Problem Title	CP4
00514	Rails Rails	2.2j, Stack
00732	Anagrams by Stack	2.2j, Stack
01062	Containers	2.2j, Stack
10858	Unique Factorization	2.2j, Stack
13055	Inception	2.2j, Stack
dream	<u>dream</u>	2.2j, Stack
evenup	<u>evenup</u>	2.2j, Stack
pairingsocks	<u>pairingsocks</u>	2.2j, Stack
restaurant	<u>restaurant</u>	2.2j, Stack
reversebinary	<u>reversebinary</u>	2.2j, Stack
symmetricorder	<u>symmetricorder</u>	2.2j, Stack
thegrandadventure	<u>thegrandadventure</u>	2.2j, Stack
throwns	<u>throwns</u>	2.2j, Stack
00551	Nesting a Bunch of Bracket	2.2k, Stack-based Problems
00673	Parentheses Balance	2.2k, Stack-based Problems
00727	Equation	2.2k, Stack-based Problems
11111	Generalized Matrioshkas	2.2k, Stack-based Problems
bracketsequence	<u>bracketsequence</u>	2.2k, Stack-based Problems
bungeebuilder	<u>bungeebuilder</u>	2.2k, Stack-based Problems
circuitmath	<u>circuitmath</u>	2.2k, Stack-based Problems
delimitersoup	<u>delimitersoup</u>	2.2k, Stack-based Problems
00246	10-20-30 10-20-30	2.2I, List/Queue/Deque
00540	Team Queue	2.2l, List/Queue/Deque
10172	The Lonesome Cargo Distrib	2.2l, List/Queue/Deque

Both OJ	Problem Title	CP4
10901	Ferry Loading III	2.2I, List/Queue/Deque
10935	Throwing cards away I	2.2I, List/Queue/Deque
11034	Ferry Loading IV	2.2I, List/Queue/Deque
11797	Drutojan Express	2.2I, List/Queue/Deque
11988	Broken Keyboard (a.k.a. Be	2.21, List/Queue/Deque
12100	Printer Queue	2.2I, List/Queue/Deque
12108	Extraordinarily Tired Stud	2.2l, List/Queue/Deque
12207	That is Your Queue	2.2I, List/Queue/Deque
backspace	<u>backspace</u>	2.2I, List/Queue/Deque
ferryloading3	ferryloading3	2.21, List/Queue/Deque
ferryloading4	ferryloading4	2.2l, List/Queue/Deque
foosball	<u>foosball</u>	2.2I, List/Queue/Deque
integerlists	<u>integerlists</u>	2.2l, List/Queue/Deque
joinstrings	<u>joinstrings</u>	2.2l, List/Queue/Deque
lyklagangriti	<u>lyklagangriti</u>	2.2I, List/Queue/Deque
server	<u>server</u>	2.21, List/Queue/Deque
sim	<u>sim</u>	2.2l, List/Queue/Deque
teque	<u>teque</u>	2.2l, List/Queue/Deque
trendingtopic	<u>trendingtopic</u>	2.2I, List/Queue/Deque
01203	online Judge Argus	2.3a, Priority Queue
11995	I Can Guess the Data Struc	2.3a, Priority Queue
11997	K Smallest Sums	2.3a, Priority Queue
13190	Rockabye Tobby	2.3a, Priority Queue
alehouse	<u>alehouse</u>	2.3a, Priority Queue

Both OJ	Problem Title	CP4
clinic	clinic	2.3a, Priority Queue
guessthedatastructure	<u>guessthedatastructure</u>	2.3a, Priority Queue
janeeyre	<u>janeeyre</u>	2.3a, Priority Queue
jugglingpatterns	<u>jugglingpatterns</u>	2.3a, Priority Queue
knigsoftheforest	<u>knigsoftheforest</u>	2.3a, Priority Queue
numbertree	<u>numbertree</u>	2.3a, Priority Queue
pharmacy	<u>pharmacy</u>	2.3a, Priority Queue
rationalsequence2	rationalsequence2	2.3a, Priority Queue
rationalsequence3	rationalsequence3	2.3a, Priority Queue
stockprices	<u>stockprices</u>	2.3a, Priority Queue
00499	What's The Frequency, Kenn	2.3b, DAT, ASCII
00895	Word Problem	2.3b, DAT, ASCII
10008	What's Cryptanalysis?	2.3b, DAT, ASCII
10062	Tell me the frequencies!	2.3b, DAT, ASCII
10260	Soundex	2.3b, DAT, ASCII
10293	Word Length and Frequency	2.3b, DAT, ASCII
10625	GNU = GNU'sNotUnix	2.3b, DAT, ASCII
11340	Newspaper Newspaper	2.3b, DAT, ASCII
11577	Letter Frequency	2.3b, DAT, ASCII
12626	anline Judge I Pizza	2.3b, DAT, ASCII
alphabetspam	<u>alphabetspam</u>	2.3b, DAT, ASCII
keyboardd	<u>keyboardd</u>	2.3b, DAT, ASCII
quickbrownfox	<u>quickbrownfox</u>	2.3b, DAT, ASCII
soundex	<u>soundex</u>	2.3b, DAT, ASCII

Both OJ	Problem Title	CP4
00755	4873279	2.3c, DAT, Others
01368	DNA Consensus String	2.3c, DAT, Others
11203	Can you decide it for ME?	2.3c, DAT, Others
12650	Dangerous Dive	2.3c, DAT, Others
bookingaroom	<u>bookingaroom</u>	2.3c, DAT, Others
busnumbers	<u>busnumbers</u>	2.3c, DAT, Others
freefood	<u>Freefood</u>	2.3c, DAT, Others
hardware	<u>hardware</u>	2.3c, DAT, Others
heimavinna	<u>heimavinna</u>	2.3c, DAT, Others
princesspeach	<u>princesspeach</u>	2.3c, DAT, Others
relocation	<u>relocation</u>	2.3c, DAT, Others
simone	<u>simone</u>	2.3c, DAT, Others
10887	Concatenation of Languages	2.3d, Hash Table (set)
11849	CD Online Judge	2.3d, Hash Table (set)
12049	Just Prune The List	2.3d, Hash Table (set)
13148	A Giveaway	2.3d, Hash Table (set)
bard	<u>bard</u>	2.3d, Hash Table (set)
boatparts	<u>boatparts</u>	2.3d, Hash Table (set)
cd	<u>cd</u>	2.3d, Hash Table (set)
deduplicatingfiles	<u>deduplicatingfiles</u>	2.3d, Hash Table (set)
engineeringenglish	<u>engineeringenglish</u>	2.3d, Hash Table (set)
esej	esej esej	2.3d, Hash Table (set)
everywhere	<u>everywhere</u>	2.3d, Hash Table (set)
greetingcard	<u>greetingcard</u>	2.3d, Hash Table (set)

Both OJ	Problem Title	CP4
icpcawards	<u>icpcawards</u>	2.3d, Hash Table (set)
iwannabe	<u>iwannabe</u>	2.3d, Hash Table (set)
keywords	<u>keywords</u>	2.3d, Hash Table (set)
knotknowledge	knotknowledge	2.3d, Hash Table (set)
nodup	<u>nodup</u>	2.3d, Hash Table (set)
oddmanout	oddmanout oddmanout	2.3d, Hash Table (set)
pizzahawaii	pizzahawaii pizzahawaii	2.3d, Hash Table (set)
proofs	<u>proofs</u>	2.3d, Hash Table (set)
securedoors	<u>securedoors</u>	2.3d, Hash Table (set)
shiritori	<u>shiritori</u>	2.3d, Hash Table (set)
shoppinglist	<u>shoppinglist</u>	2.3d, Hash Table (set)
shoppinglisteasy	<u>shoppinglisteasy</u>	2.3d, Hash Table (set)
upprodun	<u>upprodun</u>	2.3d, Hash Table (set)
whatdoesthefoxsay	<u>whatdoesthefoxsay</u>	2.3d, Hash Table (set)
00484	The Department of Redundan	2.3e, Hash Table (map), E
00860	Entropy Text Analyzer	2.3e, Hash Table (map), E
00902	Password Search	2.3e, Hash Table (map), E
10282	Babelfish	2.3e, Hash Table (map), E
10295	Hay Points	2.3e, Hash Table (map), E
10374	Election Election	2.3e, Hash Table (map), E
10686	SQF Problems	2.3e, Hash Table (map), E
11286	Conformity Conformity	2.3e, Hash Table (map), E
11348	Exhibition	2.3e, Hash Table (map), E
11629	Ballot evaluation	2.3e, Hash Table (map), E

Both OJ	Problem Title	CP4
12592	Slogan Learning of Princes	2.3e, Hash Table (map), E
babelfish	<u>babelfish</u>	2.3e, Hash Table (map), E
competitivearcadebasketball	competitivearcadebasketbal	2.3e, Hash Table (map), E
conformity	<u>conformity</u>	2.3e, Hash Table (map), E
costumecontest	costumecontest	2.3e, Hash Table (map), E
election2	election2	2.3e, Hash Table (map), E
grandpabernie	grandpabernie	2.3e, Hash Table (map), E
haypoints	<u>haypoints</u>	2.3e, Hash Table (map), E
marko	<u>marko</u>	2.3e, Hash Table (map), E
metaprogramming	metaprogramming	2.3e, Hash Table (map), E
recount	<u>recount</u>	2.3e, Hash Table (map), E
rollcall	rollcall	2.3e, Hash Table (map), E
variablearithmetic	<u>variablearithmetic</u>	2.3e, Hash Table (map), E
00417	Word Index	2.3f, Hash Table (map), H
10132	File Fragmentation	2.3f, Hash Table (map), H
10145	Lock Manager	2.3f, Hash Table (map), H
11572	Unique Snowflakes	2.3f, Hash Table (map), H
11860	Document Analyzer	2.3f, Hash Table (map), H
11917	Do Your Own Homework	2.3f, Hash Table (map), H
addingwords	<u>addingwords</u>	2.3f, Hash Table (map), H
awkwardparty	<u>awkwardparty</u>	2.3f, Hash Table (map), H
basicinterpreter	<u>basicinterpreter</u>	2.3f, Hash Table (map), H
bokforing	bokforing	2.3f, Hash Table (map), H
conversationlog	<u>conversationlog</u>	2.3f, Hash Table (map), H

Both OJ	Problem Title	CP4
iforaneye	<u>iforaneye</u>	2.3f, Hash Table (map), H
magicalcows	magicalcows	2.3f, Hash Table (map), H
minorsetback	minorsetback	2.3f, Hash Table (map), H
parallelanalysis	parallelanalysis	2.3f, Hash Table (map), H
recenice	recenice	2.3f, Hash Table (map), H
snowflakes	<u>snowflakes</u>	2.3f, Hash Table (map), H
00501	Black Box	2.3g, Balanced BST (set)
00978	Lemmings Battle!	2.3g, Balanced BST (set)
10815	Andy's First Dictionary	2.3g, Balanced BST (set)
11062	Andy's Second Dictionary	2.3g, Balanced BST (set)
11136	Hoax or what	2.3g, Balanced BST (set)
13037	Chocolate Chocolate	2.3g, Balanced BST (set)
bst	<u>bst</u>	2.3g, Balanced BST (set)
caching	<u>caching</u>	2.3g, Balanced BST (set)
candydivision	<u>candydivision</u>	2.3g, Balanced BST (set)
compoundwords	<u>compoundwords</u>	2.3g, Balanced BST (set)
coursescheduling	coursescheduling	2.3g, Balanced BST (set)
ministryofmagic	ministryofmagic	2.3g, Balanced BST (set)
missinggnomes	missinggnomes	2.3g, Balanced BST (set)
orphanbackups	<u>orphanbackups</u>	2.3g, Balanced BST (set)
palindromicpassword	palindromicpassword	2.3g, Balanced BST (set)
raidteams	<u>raidteams</u>	2.3g, Balanced BST (set)
00939	Genes Genes	2.3h, Balanced BST (map)
10138	Online Judge CDVII	2.3h, Balanced BST (map)

Both OJ	Problem Title	CP4
10226	Hardwood Species	2.3h, Balanced BST (map)
10420	List of Conquests	2.3h, Balanced BST (map)
11239	Open Source	2.3h, Balanced BST (map)
11308	Bankrupt Baker	2.3h, Balanced BST (map)
12504	Updating a Dictionary	2.3h, Balanced BST (map)
administrativeproblems	<u>administrativeproblems</u>	2.3h, Balanced BST (map)
baconeggsandspam	<u>baconeggsandspam</u>	2.3h, Balanced BST (map)
cakeymccakeface	<u>cakeymccakeface</u>	2.3h, Balanced BST (map)
doctorkattis	<u>adoctorkattis</u>	2.3h, Balanced BST (map)
fantasydraft	<u>fantasydraft</u>	2.3h, Balanced BST (map)
fodelsedagsmemorisering	<u>fodelsedagsmemorisering</u>	2.3h, Balanced BST (map)
hardwoodspecies	<u>hardwoodspecies</u>	2.3h, Balanced BST (map)
kattissquest	<u>kattissquest</u>	2.3h, Balanced BST (map)
notamused	<u>notamused</u>	2.3h, Balanced BST (map)
opensource	<u>opensource</u>	2.3h, Balanced BST (map)
problemclassification	problemclassification	2.3h, Balanced BST (map)
srednji	<u>srednji</u>	2.3h, Balanced BST (map)
warehouse	<u>warehouse</u>	2.3h, Balanced BST (map)
Z00	<u>Z00</u>	2.3h, Balanced BST (map)
10909	Lucky Number	2.3i, Order Statistics Tree
babynames	<u>babynames</u>	2.3i, Order Statistics Tree
continuousmedian	<u>continuousmedian</u>	2.3i, Order Statistics Tree
cookieselection	<u>cookieselection</u>	2.3i, Order Statistics Tree
дсрс	<u>gcpc</u>	2.3i, Order Statistics Tree

Both OJ	Problem Title	CP4
00599	The Forrest for the Trees	2.4a, Graph Data Structures
10895	Matrix Transpose	2.4a, Graph Data Structures
10928	My Dear Neighbours	2.4a, Graph Data Structures
11550	Demanding Dilemma	2.4a, Graph Data Structures
11991	Easy Problem from Rujia Li	2.4a, Graph Data Structures
abinitio	<u>abinitio</u>	2.4a, Graph Data Structures
alphabetanimals	<u>alphabetanimals</u>	2.4a, Graph Data Structures
chopwood	<u>chopwood</u>	2.4a, Graph Data Structures
flyingsafely	<u>flyingsafely</u>	2.4a, Graph Data Structures
popularitycontest	<u>popularitycontest</u>	2.4a, Graph Data Structures
railroad	<u>railroad</u>	2.4a, Graph Data Structures
traveltheskies	<u>traveltheskies</u>	2.4a, Graph Data Structures
weakvertices	<u>weakvertices</u>	2.4a, Graph Data Structures
00105	The Skyline Problem	3.2b, Iterative (Two Loops)
00592	Island of Logic	3.2b, Iterative (Two Loops)
00617	Nonstop Travel	3.2b, Iterative (Two Loops)
01260	Sales	3.2b, Iterative (Two Loops)
01588	Conline Judge Kickdown	3.2b, Iterative (Two Loops)
10041	Vito's Family	3.2b, Iterative (Two Loops)
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)

Both OJ	Problem Title	CP4
12205	Happy Telephones	3.2b, Iterative (Two Loops)
12488	Start Grid	3.2b, Iterative (Two Loops)
12583	Memory Overflow	3.2b, Iterative (Two Loops)
13018	Dice Cup	3.2b, Iterative (Two Loops)
8queens	8queens	3.2b, Iterative (Two Loops)
antiarithmetic	antiarithmetic	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	missingnumber	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)
reduction	<u>reduction</u>	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)

Both OJ	Problem Title	CP4
tourdefrance	<u>tourdefrance</u>	3.2b, Iterative (Two Loops)
00154	Recycling Recycling	3.2c, Three+ Nested Loops, E
00441	Lotto	3.2c, Three+ Nested Loops, E
00626	Ecosystem 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	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>npuzzle</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
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
00679	Dropping Balls	3.3a, Binary Search
00957	Popes Online Judge	3.3a, Binary Search

Both OJ	Problem Title	CP4
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	Online Judge Exact Sum	3.3a, Binary Search
11621	Small Factors	3.3a, Binary Search
11876	Online Judge N + NOD (N)	3.3a, Binary Search
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	<u>outofsorts</u>	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 Slalom	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	College Blectric Bill	3.3b, Bisection and BSTA, E

Both OJ	Problem Title	CP4
12791	Colline Judge 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	<u>financialplanning</u>	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	<u>htoo</u>	3.3b, Bisection and BSTA, E
monk	<u>monk</u>	3.3b, Bisection and BSTA, E
slalom2	slalom2	3.3b, Bisection and BSTA, E
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
10763	Foreign Exchange	3.4b, Involving Sorting, E
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

Both OJ	Problem Title	CP4
akcija	<u>akcija</u>	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	gettowork	3.4b, Involving Sorting, E
help	<u>help</u>	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	<u>pikemaneasy</u>	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
textmessaging	textmessaging	3.4b, Involving Sorting, E
toflur	<u>toflur</u>	3.4b, Involving Sorting, E
universityzoning	universityzoning	3.4b, Involving Sorting, E
woodcutting	woodcutting	3.4b, Involving Sorting, E
01153	Keep the Customer Satisfie	3.4d, Involving PQ
10954	Online Judge Add All	3.4d, Involving PQ
12390	Distributing Ballot Boxes	3.4d, Involving PQ
13177	Orchestral scores	3.4d, Involving PQ
ballotboxes	<u>ballotboxes</u>	3.4d, Involving PQ

Both OJ	Problem Title	CP4
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
00260	Il Gioco dell'X	4.2a, Finding CCs
00280	Vertex Vertex	4.2a, Finding CCs
00459	Graph Connectivity	4.2a, Finding CCs
10687	Monitoring the Amazon	4.2a, Finding CCs
11518	Dominos 2	4.2a, Finding CCs
11749	Poor Trade Advisor	4.2a, Finding CCs
11841	Y-game	4.2a, Finding CCs
11902	Dominator Dominator	4.2a, Finding CCs
11906	Knight in a War Grid	4.2a, Finding CCs
cartrouble	cartrouble	4.2a, Finding CCs
daceydice	<u>daceydice</u>	4.2a, Finding CCs
dominoes2	dominoes2	4.2a, Finding CCs
moneymatters	<u>moneymatters</u>	4.2a, Finding CCs
pearwise	<u>pearwise</u>	4.2a, Finding CCs
reachableroads	<u>reachableroads</u>	4.2a, Finding CCs
securitybadge	<u>securitybadge</u>	4.2a, Finding CCs
terraces	<u>terraces</u>	4.2a, Finding CCs
wheresmyinternet	<u>wheresmyinternet</u>	4.2a, Finding CCs
00352	The Seasonal War	4.2b, Flood Fill, Easier
00469	Wetlands of Florida	4.2b, Flood Fill, Easier

Both OJ	Problem Title	CP4
00572	Oil Deposits	4.2b, Flood Fill, Easier
00657	The die is cast	4.2b, Flood Fill, Easier
00722	Lakes Lakes	4.2b, Flood Fill, Easier
00871	Counting Cells in a Blob	4.2b, Flood Fill, Easier
10336	Rank the Languages	4.2b, Flood Fill, Easier
11244	Counting Stars	4.2b, Flood Fill, Easier
11470	Square Sums	4.2b, Flood Fill, Easier
11561	Getting Gold	4.2b, Flood Fill, Easier
11953	Battleships	4.2b, Flood Fill, Easier
amoebas	<u>amoebas</u>	4.2b, Flood Fill, Easier
countingstars	<u>countingstars</u>	4.2b, Flood Fill, Easier
floodit	floodit	4.2b, Flood Fill, Easier
fontan	<u>fontan</u>	4.2b, Flood Fill, Easier
gold	gold	4.2b, Flood Fill, Easier
00124	Following Orders	4.2d, Topological Sort
00200	Rare Order	4.2d, Topological Sort
00872	Ordering.	4.2d, Topological Sort
10305	Ordering Tasks	4.2d, Topological Sort
11060	Beverages Online Judge	4.2d, Topological Sort
11686	Pick up sticks	4.2d, Topological Sort
brexit	<u>brexit</u>	4.2d, Topological Sort
brexitnegotiations	<u>brexitnegotiations</u>	4.2d, Topological Sort
builddeps	<u>builddeps</u>	4.2d, Topological Sort
collapse	<u>collapse</u>	4.2d, Topological Sort

Both OJ	Problem Title	CP4
conservation	<u>conservation</u>	4.2d, Topological Sort
curveknights	<u>curveknights</u>	4.2d, Topological Sort
digicomp2	digicomp2	4.2d, Topological Sort
grapevine	<u>grapevine</u>	4.2d, Topological Sort
managingpackaging	<u>managingpackaging</u>	4.2d, Topological Sort
pickupsticks	<u>pickupsticks</u>	4.2d, Topological Sort
00840	Deadlock Detection	4.2e, Graph Properties Check
10004	Bicoloring.	4.2e, Graph Properties Check
10116	Robot Motion	4.2e, Graph Properties Check
10505	Montesco vs Capuleto	4.2e, Graph Properties Check
10510	Cactus Cactus	4.2e, Graph Properties Check
11080	Place the Guards	4.2e, Graph Properties Check
11396	Claw Decomposition	4.2e, Graph Properties Check
amanda	<u>amanda</u>	4.2e, Graph Properties Check
ballsandneedles	<u>ballsandneedles</u>	4.2e, Graph Properties Check
breakingbad	<u>breakingbad</u>	4.2e, Graph Properties Check
hoppers	<u>hoppers</u>	4.2e, Graph Properties Check
molekule	<u>molekule</u>	4.2e, Graph Properties Check
pubs	<u>pubs</u>	4.2e, Graph Properties Check
runningmom	<u>runningmom</u>	4.2e, Graph Properties Check
torn2pieces	torn2pieces	4.2e, Graph Properties Check
00118	Mutant Flatworld Explorers	4.2h, Really Ad Hoc
00168	Theseus and the Minotaur	4.2h, Really Ad Hoc
00173	Network Wars	4.2h, Really Ad Hoc

Both OJ	Problem Title	CP4
00318	Domino Effect	4.2h, Really Ad Hoc
00614	Mapping the Route	4.2h, Really Ad Hoc
00824	Coast Tracker	4.2h, Really Ad Hoc
10113	Exchange Rates	4.2h, Really Ad Hoc
10377	Maze Traversal	4.2h, Really Ad Hoc
11831	Sticker Collector Robot	4.2h, Really Ad Hoc
12376	As Long as I Learn, I Live	4.2h, Really Ad Hoc
12442	Forwarding Emails	4.2h, Really Ad Hoc
12582	Wedding of Sultan	4.2h, Really Ad Hoc
12648	Boss Boss	4.2h, Really Ad Hoc
13015	Promotions online Judge	4.2h, Really Ad Hoc
13038	Directed Forest	4.2h, Really Ad Hoc
droppingdirections	<u>droppingdirections</u>	4.2h, Really Ad Hoc
faultyrobot	<u>faultyrobot</u>	4.2h, Really Ad Hoc
promotions	<u>promotions</u>	4.2h, Really Ad Hoc
silueta	<u>silueta</u>	4.2h, Really Ad Hoc
succession	<u>succession</u>	4.2h, Really Ad Hoc
00336	online Judge A Node Too Far	4.4a, SSSP, BFS, Easier
00388	Galactic Import	4.4a, SSSP, BFS, Easier
00429	Word Transformation	4.4a, SSSP, BFS, Easier
00627	The Net	4.4a, SSSP, BFS, Easier
00762	We Ship Cheap	4.4a, SSSP, BFS, Easier
00924	Spreading The News	4.4a, SSSP, BFS, Easier
01148	The mysterious X network	4.4a, SSSP, BFS, Easier

Both OJ	Problem Title	CP4
10009	All Roads Lead Where?	4.4a, SSSP, BFS, Easier
10610	Gopher and Hawks	4.4a, SSSP, BFS, Easier
10653	Bombs! NO they are Mines!!	4.4a, SSSP, BFS, Easier
10959	The Party, Part I	4.4a, SSSP, BFS, Easier
12160	Unlock the Lock	4.4a, SSSP, BFS, Easier
buttonbashing	<u>buttonbashing</u>	4.4a, SSSP, BFS, Easier
elevatortrouble	<u>elevatortrouble</u>	4.4a, SSSP, BFS, Easier
grid	<u>Sanid</u>	4.4a, SSSP, BFS, Easier
horror	<u>Morror</u>	4.4a, SSSP, BFS, Easier
spiral	<u>spiral</u>	4.4a, SSSP, BFS, Easier
wettiles	<u>wettiles</u>	4.4a, SSSP, BFS, Easier
00439	Conline Judge 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	<u>hidingplaces</u>	4.4c, Knight Moves
knightjump	<u>knightjump</u>	4.4c, Knight Moves
00929	Number Maze	4.4d, SSSP, Dijkstra, Easier
01112	Mice and Maze	4.4d, SSSP, Dijkstra, Easier
10389	Subway	4.4d, SSSP, Dijkstra, Easier
10986	Sending email	4.4d, SSSP, Dijkstra, Easier
12878	Flowery Trails	4.4d, SSSP, Dijkstra, Easier
13127	Bank Robbery	4.4d, SSSP, Dijkstra, Easier

Both OJ	Problem Title	CP4
flowerytrails	<u>flowerytrails</u>	4.4d, SSSP, Dijkstra, Easier
george	<u>george</u>	4.4d, SSSP, Dijkstra, Easier
getshorty	getshorty	4.4d, SSSP, Dijkstra, Easier
hopscotch50	hopscotch50	4.4d, SSSP, Dijkstra, Easier
shortestpath1	shortestpath1	4.4d, SSSP, Dijkstra, Easier
shortestpath2	shortestpath2	4.4d, SSSP, Dijkstra, Easier
subway2	subway2	4.4d, SSSP, Dijkstra, Easier
texassummers	<u>texassummers</u>	4.4d, SSSP, Dijkstra, Easier
00423	MPI Maelstrom	4.4f, SSSP, -ve weight
00558	Wormholes Wormholes	4.4f, SSSP, -ve weight
10449	Traffic	4.4f, SSSP, -ve weight
10557	online Judge XYZZY	4.4f, SSSP, -ve weight
11280	Flying to Fredericton	4.4f, SSSP, -ve weight
12768	Inspired Procrastination	4.4f, SSSP, -ve weight
crosscountry	<u>crosscountry</u>	4.4f, SSSP, -ve weight
hauntedgraveyard	<u>Mauntedgraveyard</u>	4.4f, SSSP, -ve weight
shortestpath3	shortestpath3	4.4f, SSSP, -ve weight
xyzzy	<u>Xyzzy</u>	4.4f, SSSP, -ve weight
00298	Race Tracks	8.2b, State-Space, BFS, E
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

Both OJ	Problem Title	CP4
10682	Forr	8.2b, State-Space, BFS, E
11513	Online Judge 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	<u> flipfive</u>	8.2b, State-Space, BFS, E
hydrasheads	<u>hydrasheads</u>	8.2b, State-Space, BFS, E
illiteracy	illiteracy illiteracy	8.2b, State-Space, BFS, E
safe	<u>safe</u>	8.2b, State-Space, BFS, E
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	<u>bigtruck</u>	8.2d, State-Space, Dijkstra
bumped	<u>bumped</u>	8.2d, State-Space, Dijkstra
destinationunknown	<u>destinationunknown</u>	8.2d, State-Space, Dijkstra
kitchen	kitchen	8.2d, State-Space, Dijkstra
quantum	<u>quantum</u>	8.2d, State-Space, Dijkstra
rainbowroadrace	<u>rainbowroadrace</u>	8.2d, State-Space, Dijkstra
treasure	<u>treasure</u>	8.2d, State-Space, Dijkstra

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