



Competitive Programming



Methods to Solve (2000-present)

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

OJ: , Topic: , Quality:

Online Judge shown: Both

Problem topics shown: Chapter 2 : Data Structures and Libraries only

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 entries

























Search:

























Both OJ	Problem Title	CP4
00414	 Machined Surfaces	2.2a, 1D Array, Medium
00482	 Permutation Arrays	2.2a, 1D Array, Medium
00591	 Box of Bricks	2.2a, 1D Array, Medium

























Both OJ	Problem Title	CP4
10038	 Jolly Jumpers	2.2a, 1D Array, Medium
10050	 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	 baloni	2.2a, 1D Array, Medium
downtime	 downtime	2.2a, 1D Array, Medium
erase	 erase	2.2a, 1D Array, Medium
fluortanten	 fluortanten	2.2a, 1D Array, Medium
greedilyincreasing	 greedilyincreasing	2.2a, 1D Array, Medium
jollyjumpers	 jollyjumpers	2.2a, 1D Array, Medium
rankproblem	 rankproblem	2.2a, 1D Array, Medium
trackingshares	 trackingshares	2.2a, 1D Array, Medium
00230	 Borrowers	2.2b, 1D Array, Harder
00394	 Mapmaker	2.2b, 1D Array, Harder
00467	 Synching Signals	2.2b, 1D Array, Harder

























Both OJ	Problem Title	CP4
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	2.2b, 1D Array, Harder
12662	 Good Teacher	2.2b, 1D Array, Harder
13048	 Burger Stand	2.2b, 1D Array, Harder
astro	 astro	2.2b, 1D Array, Harder
crashingrobots	 crashingrobots	2.2b, 1D Array, Harder
divideby100	 divideby100	2.2b, 1D Array, Harder
flippingpatties	 flippingpatties	2.2b, 1D Array, Harder
inverteddeck	 inverteddeck	2.2b, 1D Array, Harder
keypad	 keypad	2.2b, 1D Array, Harder
mastermind	 mastermind	2.2b, 1D Array, Harder
physicalmusic	 physicalmusic	2.2b, 1D Array, Harder
piperotation	 piperotation	2.2b, 1D Array, Harder
pivot	 pivot	2.2b, 1D Array, Harder
queens	 queens	2.2b, 1D Array, Harder
rockband	 rockband	2.2b, 1D Array, Harder
upsanddownsofinvesting	 upsanddownsofinvesting	2.2b, 1D Array, Harder
00541	 Error Correction	2.2c, 2D Array, Easier
00585	 Triangles	2.2c, 2D Array, Easier
10703	 Free spots	2.2c, 2D Array, Easier

Both OJ	Problem Title	CP4
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	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	 epigdanceoff	2.2c, 2D Array, Easier
flowshop	 flowshop	2.2c, 2D Array, Easier
imageprocessing	 imageprocessing	2.2c, 2D Array, Easier
nineknights	 nineknights	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	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
12398	 NumPuzz I	2.2d, 2D Array, Harder

























Both OJ	Problem Title	CP4
2048	 2048	2.2d, 2D Array, Harder
apples	 apples	2.2d, 2D Array, Harder
falcondiv	 falcondiv	2.2d, 2D Array, Harder
flagquiz	 flagquiz	2.2d, 2D Array, Harder
funhouse	 funhouse	2.2d, 2D Array, Harder
prva	 prva	2.2d, 2D Array, Harder
rings2	 rings2	2.2d, 2D Array, Harder
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	2.2e, Sorting, Easier
12709	 Falling Ants	2.2e, Sorting, Easier
12861	 Help cupid	2.2e, Sorting, Easier
13113	 Presidential Election	2.2e, Sorting, Easier
basicprogramming2	 basicprogramming2	2.2e, Sorting, Easier
closingtheloop	 closingtheloop	2.2e, Sorting, Easier

























Both OJ	Problem Title	CP4
cups	 cups	2.2e, Sorting, Easier
height	 height	2.2e, Sorting, Easier
judging	 judging	2.2e, Sorting, Easier
magictrick	 magictrick	2.2e, Sorting, Easier
mjehuric	 mjehuric	2.2e, Sorting, Easier
musicaltrees	 musicaltrees	2.2e, Sorting, Easier
nothanks	 nothanks	2.2e, Sorting, Easier
sidewaysorting	 sidewaysorting	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	 addemup	2.2f, Sorting, Harder
booking	 booking	2.2f, Sorting, Harder
chartingprogress	 chartingprogress	2.2f, Sorting, Harder
classy	 classy	2.2f, Sorting, Harder
dirtydriving	 dirtydriving	2.2f, Sorting, Harder
dyslectionary	 dyslectionary	2.2f, Sorting, Harder

























Both OJ	Problem Title	CP4
gearchanging	 gearchanging	2.2f, Sorting, Harder
includescoring	 includescoring	2.2f, Sorting, Harder
lawnmower	 lawnmower	2.2f, Sorting, Harder
longswaps	 longswaps	2.2f, Sorting, Harder
<i>musicyourway</i>	 musicyourway	<i>2.2f, Sorting, Harder</i>
<i>sortofsorting</i>	 sortofsorting	<i>2.2f, Sorting, Harder</i>
zipfsong	 zipfsong	2.2f, Sorting, Harder
00299	 Train Swapping	2.2g, Special Sorting
<i>00612</i>	 DNA Sorting	<i>2.2g, Special Sorting</i>
10327	 Flip Sort	2.2g, Special Sorting
10810	 Ultra-QuickSort	2.2g, Special Sorting
<i>11462</i>	 Age Sort	<i>2.2g, Special Sorting</i>
<i>11495</i>	 Bubbles and Buckets	<i>2.2g, Special Sorting</i>
11858	 Frosh Week	2.2g, Special Sorting
<i>13212</i>	 How many inversions?	<i>2.2g, Special Sorting</i>
<i>bread</i>	 bread	<i>2.2g, Special Sorting</i>
excursion	 excursion	2.2g, Special Sorting
froshweek	 froshweek	2.2g, Special Sorting
gamenight	 gamenight	2.2g, Special Sorting
<i>mali</i>	 mali	<i>2.2g, Special Sorting</i>
sort	 sort	2.2g, Special Sorting
ultraquicksort	 ultraquicksort	2.2g, Special Sorting
00594	 One Little, Two Little, Th...	2.2h, Bit Manipulation
00700	 Date Bugs	2.2h, Bit Manipulation

























Both OJ	Problem Title	CP4
01241	 Jollybee Tournament	2.2h, Bit Manipulation
10264	 The Most Potent Corner	2.2h, Bit Manipulation
10469	 To Carry or not to Carry	2.2h, Bit Manipulation
11173	 Grey Codes	2.2h, Bit Manipulation
11760	 Brother Arif, Please feed ...	2.2h, Bit Manipulation
11926	 Multitasking	2.2h, Bit Manipulation
11933	 Splitting Numbers	2.2h, Bit Manipulation
12571	 Brother & Sisters!	2.2h, Bit Manipulation
12720	 Algorithm of Phil	2.2h, Bit Manipulation
bitbybit	 bitbybit	2.2h, Bit Manipulation
bits	 bits	2.2h, Bit Manipulation
deathstar	 deathstar	2.2h, Bit Manipulation
hypercube	 hypercube	2.2h, Bit Manipulation
iboard	 iboard	2.2h, Bit Manipulation
snappereasy	 snappereasy	2.2h, Bit Manipulation
snapperhard	 snapperhard	2.2h, Bit Manipulation
zebrasocelots	 zebrasocelots	2.2h, Bit Manipulation
00424	 Integer Inquiry	2.2i, Big Integer
00465	 Overflow	2.2i, Big Integer
00619	 Numerically Speaking	2.2i, Big Integer
00713	 Adding Reversed Numbers	2.2i, Big Integer
00748	 Exponentiation	2.2i, Big Integer
01226	 Numerical surprises	2.2i, Big Integer
01647	 Computer Transformation	2.2i, Big Integer

























Both OJ	Problem Title	CP4
10013	 Super long sums	2.2i, Big Integer
10083	 Division	2.2i, Big Integer
10106	 Product	2.2i, Big Integer
10198	 Counting	2.2i, Big Integer
10430	 Dear GOD	2.2i, Big Integer
10433	 Automorphic Numbers	2.2i, Big Integer
10464	 Big Big Real Numbers	2.2i, Big Integer
10494	 If We Were a Child Again	2.2i, Big Integer
10519	 !! Really Strange !!	2.2i, Big Integer
10523	 Very Easy !!!	2.2i, Big Integer
10669	 Three powers	2.2i, Big Integer
10925	 Krakovia	2.2i, Big Integer
10992	 The Ghost of Programmers	2.2i, Big Integer
11448	 Who said crisis?	2.2i, Big Integer
11664	 Langton's Ant	2.2i, Big Integer
11821	 High-Precision Number	2.2i, Big Integer
11830	 Contract Revision	2.2i, Big Integer
11879	 Multiple of 17	2.2i, Big Integer
12143	 Stopping Doom's Day	2.2i, Big Integer
12459	 Bees' ancestors	2.2i, Big Integer
12930	 Bigger or Smaller	2.2i, Big Integer
buka	 buka	2.2i, Big Integer
disastrousdoubling	 disastrousdoubling	2.2i, Big Integer
generalizedrecursivefunctions	 generalizedrecursivefuncti...	2.2i, Big Integer

























Both OJ	Problem Title	CP4
<i>primaryarithmetic</i>	 primaryarithmetic	2.2i, Big Integer
<i>simpleaddition</i>	 simpleaddition	2.2i, Big Integer
<i>simplearithmetic</i>	 simplearithmetic	2.2i, Big Integer
<i>threepowers</i>	 threepowers	2.2i, Big Integer
<i>wizardofodds</i>	 wizardofodds	2.2i, Big Integer
00127	 "Accordian" Patience	2.2j, Stack
00514	 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
<i>dream</i>	 dream	2.2j, Stack
<i>evenup</i>	 evenup	2.2j, Stack
<i>pairingsocks</i>	 pairingsocks	2.2j, Stack
<i>restaurant</i>	 restaurant	2.2j, Stack
<i>reversebinary</i>	 reversebinary	2.2j, Stack
<i>symmetricorder</i>	 symmetricorder	2.2j, Stack
<i>thegrandadventure</i>	 thegrandadventure	2.2j, Stack
<i>throws</i>	 throws	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
<i>bracketsequence</i>	 bracketsequence	2.2k, Stack-based Problems

























Both OJ	Problem Title	CP4
<i>bungeebuilder</i>	 bungeebuilder	2.2k, Stack-based Problems
<i>circuitmath</i>	 circuitmath	2.2k, Stack-based Problems
<i>delimitersoup</i>	 delimitersoup	2.2k, Stack-based Problems
00246	 10-20-30	2.2l, List/Queue/Deque
00540	 Team Queue	2.2l, List/Queue/Deque
10172	 The Lonesome Cargo Distrib...	2.2l, List/Queue/Deque
10901	 Ferry Loading III	2.2l, List/Queue/Deque
10935	 Throwing cards away I	2.2l, List/Queue/Deque
11034	 Ferry Loading IV	2.2l, List/Queue/Deque
11797	 Drutojan Express	2.2l, List/Queue/Deque
11988	 Broken Keyboard (a.k.a. Be...	2.2l, List/Queue/Deque
12100	 Printer Queue	2.2l, List/Queue/Deque
12108	 Extraordinarily Tired Stud...	2.2l, List/Queue/Deque
12207	 That is Your Queue	2.2l, List/Queue/Deque
backspace	 backspace	2.2l, List/Queue/Deque
ferryloading3	 ferryloading3	2.2l, List/Queue/Deque
ferryloading4	 ferryloading4	2.2l, List/Queue/Deque
foosball	 foosball	2.2l, List/Queue/Deque
<i>integerlists</i>	 integerlists	2.2l, List/Queue/Deque
<i>joinstrings</i>	 joinstrings	2.2l, List/Queue/Deque
lyklagangriti	 lyklagangriti	2.2l, List/Queue/Deque
server	 server	2.2l, List/Queue/Deque
<i>sim</i>	 sim	2.2l, List/Queue/Deque
<i>teque</i>	 teque	2.2l, List/Queue/Deque

























Both OJ	Problem Title	CP4
trendingtopic	 trendingtopic	2.2I, List/Queue/Deque
01203	 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 Toby	2.3a, Priority Queue
alehouse	 alehouse	2.3a, Priority Queue
clinic	 clinic	2.3a, Priority Queue
guessthedatastructure	 guessthedatastructure	2.3a, Priority Queue
janeeyre	 janeeyre	2.3a, Priority Queue
jugglingpatterns	 jugglingpatterns	2.3a, Priority Queue
knigsoftheforest	 knigsoftheforest	2.3a, Priority Queue
numbertree	 numbertree	2.3a, Priority Queue
pharmacy	 pharmacy	2.3a, Priority Queue
rationalsequence2	 rationalsequence2	2.3a, Priority Queue
rationalsequence3	 rationalsequence3	2.3a, Priority Queue
stockprices	 stockprices	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	2.3b, DAT, ASCII

























Both OJ	Problem Title	CP4
11577	 Letter Frequency	2.3b, DAT, ASCII
12626	 I ♥ Pizza	2.3b, DAT, ASCII
alphabetspam	 alphabetspam	2.3b, DAT, ASCII
keyboardd	 keyboardd	2.3b, DAT, ASCII
quickbrownfox	 quickbrownfox	2.3b, DAT, ASCII
soundex	 soundex	2.3b, DAT, ASCII
00755	 487--3279	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	 bookingaroom	2.3c, DAT, Others
busnumbers	 busnumbers	2.3c, DAT, Others
freefood	 freefood	2.3c, DAT, Others
hardware	 hardware	2.3c, DAT, Others
heimavinna	 heimavinna	2.3c, DAT, Others
princesspeach	 princesspeach	2.3c, DAT, Others
relocation	 relocation	2.3c, DAT, Others
simone	 simone	2.3c, DAT, Others
10887	 Concatenation of Languages	2.3d, Hash Table (set)
11849	 CD	2.3d, Hash Table (set)
12049	 Just Prune The List	2.3d, Hash Table (set)
13148	 A Giveaway	2.3d, Hash Table (set)
bard	 bard	2.3d, Hash Table (set)
boatparts	 boatparts	2.3d, Hash Table (set)

























Both OJ	Problem Title	CP4
<i>cd</i>	 <u>cd</u>	<i>2.3d, Hash Table (set)</i>
deduplicatingfiles	 <u>deduplicatingfiles</u>	2.3d, Hash Table (set)
engineeringenglish	 <u>engineeringenglish</u>	2.3d, Hash Table (set)
<i>esej</i>	 <u>esej</u>	<i>2.3d, Hash Table (set)</i>
everywhere	 <u>everywhere</u>	2.3d, Hash Table (set)
<i>greetingcard</i>	 <u>greetingcard</u>	<i>2.3d, Hash Table (set)</i>
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)
<u>knotknowledge</u>	 <u>knotknowledge</u>	<u>2.3d, Hash Table (set)</u>
nodup	 <u>nodup</u>	2.3d, Hash Table (set)
oddmanout	 <u>oddmanout</u>	2.3d, Hash Table (set)
pizzahawaii	 <u>pizzahawaii</u>	2.3d, Hash Table (set)
proofs	 <u>proofs</u>	2.3d, Hash Table (set)
securedoors	 <u>securedoors</u>	2.3d, Hash Table (set)
<i>shiritori</i>	 <u>shiritori</u>	<i>2.3d, Hash Table (set)</i>
<u>shoppinglist</u>	 <u>shoppinglist</u>	<u>2.3d, Hash Table (set)</u>
<u>shoppinglisteasy</u>	 <u>shoppinglisteasy</u>	<u>2.3d, Hash Table (set)</u>
<u>upprodun</u>	 <u>upprodun</u>	<u>2.3d, Hash Table (set)</u>
whatdoesthefoxsay	 <u>whatdoesthefoxsay</u>	2.3d, Hash Table (set)
00484	 <u>The Department of Redundan...</u>	2.3e, Hash Table (map), E
00860	 <u>Entropy Text Analyzer</u>	2.3e, Hash Table (map), E
<i>00902</i>	 <u>Password Search</u>	<i>2.3e, Hash Table (map), E</i>
10282	 <u>Babelfish</u>	2.3e, Hash Table (map), E













Both OJ	Problem Title	CP4
10295	 Hay Points	2.3e, Hash Table (map), E
10374	 Election	2.3e, Hash Table (map), E
10686	 SQF Problems	2.3e, Hash Table (map), E
11286	 Conformity	2.3e, Hash Table (map), E
11348	 Exhibition	2.3e, Hash Table (map), E
11629	 Ballot evaluation	2.3e, Hash Table (map), E
12592	 Slogan Learning of Princes...	2.3e, Hash Table (map), E
babelfish	 babelfish	2.3e, Hash Table (map), E
competitivearcadebasketball	 competitivearcadebasketbal...	2.3e, Hash Table (map), E
conformity	 conformity	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	 haypoints	2.3e, Hash Table (map), E
marko	 marko	2.3e, Hash Table (map), E
metaprogramming	 metaprogramming	2.3e, Hash Table (map), E
recount	 recount	2.3e, Hash Table (map), E
rollcall	 rollcall	2.3e, Hash Table (map), E
variablearithmetic	 variablearithmetic	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

Both OJ	Problem Title	CP4
11917	 Do Your Own Homework	2.3f, Hash Table (map), H
<i>addingwords</i>	 addingwords	<i>2.3f, Hash Table (map), H</i>
<i>awkwardparty</i>	 awkwardparty	<i>2.3f, Hash Table (map), H</i>
<i>basicinterpreter</i>	 basicinterpreter	<i>2.3f, Hash Table (map), H</i>
bokforing	 bokforing	2.3f, Hash Table (map), H
conversationlog	 conversationlog	2.3f, Hash Table (map), H
iforaneye	 iforaneye	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	 snowflakes	2.3f, Hash Table (map), H
00501	 Black Box	2.3g, Balanced BST (set)
00978	 Lemmings Battle!	<i>2.3g, Balanced BST (set)</i>
10815	 Andy's First Dictionary	<i>2.3g, Balanced BST (set)</i>
11062	 Andy's Second Dictionary	2.3g, Balanced BST (set)
11136	 Hoax or what	<i>2.3g, Balanced BST (set)</i>
13037	 Chocolate	<i>2.3g, Balanced BST (set)</i>
<i>bst</i>	 bst	<i>2.3g, Balanced BST (set)</i>
caching	 caching	2.3g, Balanced BST (set)
<i>candydivision</i>	 candydivision	<i>2.3g, Balanced BST (set)</i>
<i>compoundwords</i>	 compoundwords	<i>2.3g, Balanced BST (set)</i>
coursescheduling	 coursescheduling	2.3g, Balanced BST (set)
ministryofmagic	 ministryofmagic	2.3g, Balanced BST (set)

Both OJ	Problem Title	CP4
missinggnomes	 missinggnomes	2.3g, Balanced BST (set)
orphanbackups	 orphanbackups	2.3g, Balanced BST (set)
palindromicpassword	 palindromicpassword	2.3g, Balanced BST (set)
raidteams	 raidteams	2.3g, Balanced BST (set)
00939	 Genes	2.3h, Balanced BST (map)
<i>10138</i>	 CDVII	<i>2.3h, Balanced BST (map)</i>
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)
<i>11308</i>	 Bankrupt Baker	<i>2.3h, Balanced BST (map)</i>
<i>12504</i>	 Updating a Dictionary	<i>2.3h, Balanced BST (map)</i>
<i>administrativeproblems</i>	 administrativeproblems	<i>2.3h, Balanced BST (map)</i>
baconeegsandspam	 baconeegsandspam	2.3h, Balanced BST (map)
cakeymccakeface	 cakeymccakeface	2.3h, Balanced BST (map)
<i>doctorkattis</i>	 doctorkattis	<i>2.3h, Balanced BST (map)</i>
fantasydraft	 fantasydraft	2.3h, Balanced BST (map)
fodelsedagsmemorising	 fodelsedagsmemorising	2.3h, Balanced BST (map)
hardwoodspecies	 hardwoodspecies	2.3h, Balanced BST (map)
<i>kattissquest</i>	 kattissquest	<i>2.3h, Balanced BST (map)</i>
notamused	 notamused	2.3h, Balanced BST (map)
opensource	 opensource	2.3h, Balanced BST (map)
problemclassification	 problemclassification	2.3h, Balanced BST (map)
<i>srednji</i>	 srednji	<i>2.3h, Balanced BST (map)</i>
warehouse	 warehouse	2.3h, Balanced BST (map)

Both OJ	Problem Title	CP4
zoo	 zoo	2.3h, Balanced BST (map)
10909	 Lucky Number	2.3i, Order Statistics Tree
babynames	 babynames	2.3i, Order Statistics Tree
continuousmedian	 continuousmedian	2.3i, Order Statistics Tree
cookieselection	 cookieselection	2.3i, Order Statistics Tree
gcpc	 gcpc	2.3i, Order Statistics Tree
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	 abinitio	2.4a, Graph Data Structures
alphabetanimals	 alphabetanimals	2.4a, Graph Data Structures
chopwood	 chopwood	2.4a, Graph Data Structures
flyingsafely	 flyingsafely	2.4a, Graph Data Structures
popularitycontest	 popularitycontest	2.4a, Graph Data Structures
railroad	 railroad	2.4a, Graph Data Structures
traveltheskies	 traveltheskies	2.4a, Graph Data Structures
weakvertices	 weakvertices	2.4a, Graph Data Structures
00793	 Network Connections	2.4b, Union-Find
01197	 The Suspects	2.4b, Union-Find
01329	 Corporative Network	2.4b, Union-Find
10158	 War	2.4b, Union-Find
10227	 Forests	2.4b, Union-Find

Both OJ	Problem Title	CP4
10507	 Waking up brain	2.4b, Union-Find
10583	 Ubiquitous Religions	2.4b, Union-Find
10608	 Friends	2.4b, Union-Find
10685	 Nature	2.4b, Union-Find
11503	 Virtual Friends	2.4b, Union-Find
11690	 Money Matters	2.4b, Union-Find
11987	 Almost Union-Find	2.4b, Union-Find
<i>almostunionfind</i>	 almostunionfind	2.4b, Union-Find
<i>bridgesandtunnels</i>	 bridgesandtunnels	2.4b, Union-Find
<i>chatter</i>	 chatter	2.4b, Union-Find
<i>control</i>	 control	2.4b, Union-Find
<i>forests</i>	 forests	2.4b, Union-Find
<i>ladice</i>	 ladice	2.4b, Union-Find
<i>more10</i>	 more10	2.4b, Union-Find
<i>skolavslutningen</i>	 skolavslutningen	2.4b, Union-Find
<i>swaptosort</i>	 swaptosort	2.4b, Union-Find
<i>tildes</i>	 tildes	2.4b, Union-Find
<i>unionfind</i>	 unionfind	2.4b, Union-Find
<i>virtualfriends</i>	 virtualfriends	2.4b, Union-Find
00297	 Quadtrees	2.4c, Tree-related DS
01232	 SKYLINE	2.4c, Tree-related DS
01513	 Movie collection	2.4c, Tree-related DS
11235	 Frequent values	2.4c, Tree-related DS
11297	 Census	2.4c, Tree-related DS

Both OJ	Problem Title	CP4
11350	 Stern-Brocot Tree	2.4c, Tree-related DS
11402	 Ahoy, Pirates!	2.4c, Tree-related DS
11423	 Cache Simulator	2.4c, Tree-related DS
12086	 Potentiometers	2.4c, Tree-related DS
12299	 RMQ with Shifts	2.4c, Tree-related DS
12532	 Interval Product	2.4c, Tree-related DS
fenwick	 fenwick	2.4c, Tree-related DS
justforsidekicks	 justforsidekicks	2.4c, Tree-related DS
moviecollection	 moviecollection	2.4c, Tree-related DS
supercomputer	 supercomputer	2.4c, Tree-related DS
turbo	 turbo	2.4c, Tree-related DS
worstweather	 worstweather	2.4c, Tree-related DS

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