

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">Balkan 15-TILING</a>	todo	9		[222]			
<a href="#">Balkan 16-Hacker</a>	todo	9		[222]			
<a href="#">JOIOC 14-migration</a>	todo	9		[222]			
<a href="#">Balkan 17-tale</a>	geometry, impl	9		[37]			
<a href="#">IOIPractice 16-tree-square</a>	graph	9		[46]			
<a href="#">JOIOC 14-space_pirate</a>	graph, dfs, long impl	9		[50]			
<a href="#">ROUSelection 18-generating_set</a>	math, permutations, swaps, queries, impl, [restrict time]	9		[68]			
<a href="#">CEOI 18-Fib</a>	segment tree, fib, impl	8.5	<a href="#">Editorial</a>	[13]			
<a href="#">ROUSelection 18-sortall</a>	bit, impl	8.5		[15]			
<a href="#">CEOI 19-Scissors</a>	todo	8.5	<a href="#">Editorial</a>	[222]			
<a href="#">IOI 19-walk</a>	todo	8.5	<a href="#">Official sols</a>	[222]			
<a href="#">ROUSelection 18-tournament</a>	todo, hmm, preprocessing, impl	8.5		[222]			
<a href="#">APIO 18-newhome</a>	datastructures, segment tree, d&c	8.25	<a href="#">Sol</a>	[4]	p5	4	7
<a href="#">IOI 18-meetings</a>	segment tree, [solve CODECHEF SAFPAR first]	8.1	<a href="#">Sol</a>	[13]	p4	2	4
<a href="#">USACO 19feb-mowing-plat</a>	dp, dp_trick, monotonic queue	8	<a href="#">Sol</a>	[130]	p3		2
<a href="#">CEOI 19-Skyscrapers</a>	graph, scc, biconnected components, dsu	8	<a href="#">Editorial</a>	[64]	p3	2	3
<a href="#">CEOI 19-Diameter</a>	segment tree, hld, centroid decomposition or others	8	<a href="#">Editorial</a>	[13]	p2	2	3
<a href="#">IOI 12-odometer</a>	<del>ad-hoc, long impl, optimizations, [tedious, boring]</del>	<del>8</del>	<a href="#">Editorial</a>	[1]		<del>2</del>	<del>2</del>
<a href="#">IOI 10-maze</a>	<del>ad-hoc, heuristics, constructive, [output-only], [bad editorial], [not good problem]</del>	<del>8</del>	<a href="#">Editorial</a>	[1]		1	2
<a href="#">CEOI 15-nuclearia</a>	ad-hoc, long impl	8	<a href="#">Editorial</a>	[1]			
<a href="#">Balkan 17-sheets</a>	ad-hoc	8		[1]			
<a href="#">Balkan 17-strings</a>	bbst, treap	8		[106]			
<a href="#">POI 15-Sorcerer</a>	<del>impl, [official is too many cases to handle], ignore</del>	<del>8</del>	<a href="#">Editorial</a>	[109]		<del>1</del>	<del>1</del>
<a href="#">CEOI 13-splot</a>	<del>impl, [very specific - don't assign]</del>	<del>8</del>	<a href="#">Editorial</a>	[109]			
<a href="#">CEOI 13-watering</a>	impl, [very specific - don't assign], [output-only], [code then change output!]	<del>8</del>	<a href="#">Editorial</a>	[109]			
<a href="#">EJOI 17-camel</a>	impl, ???	8		[109]			
<a href="#">MCOCAMP 16-flipbrackets</a>	graph, hld, datastructures, impl	8	<a href="#">Sol (no edit)</a>	[122]			
<a href="#">POI 09-Algorithm_Speedup</a>	dp, impl, [not nice]	8	<a href="#">Editorial</a>	[16]		1	2
<a href="#">APIO 11-guessword [1]</a>	todo, [https://www.acmicpc.net/category/detail/221 - http://140.136.150.68/judge/prob	8		[222]			
<a href="#">CCO 18-FunPalace</a>	todo	8		[222]			
<a href="#">JOIOC 17-golf</a>	todo	8		[222]			
<a href="#">JOISC 15-aaqqz</a>	todo	8		[222]			
<a href="#">JOISC 15-keys</a>	todo	8		[222]			
<a href="#">JOISC 15-memory</a>	todo	8		[222]			
<a href="#">NOI 19-shuffle</a>	todo, ad-hoc, Graph Theory, Blackbox, Bit Manipulation	8		[222]			
<a href="#">ROJS 17-combinatorix</a>	dp, dp_counting, impl	8		[26]			

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<a href="#">NOIMOCK 15-travel</a>	graph	8		[46]		1	2
<a href="#">IOIPractice 16-cograph_clique</a>	graph, greedy, recursion, clique, max independent set	8		[46]			
<a href="#">JOI 19-UniqueCities</a>	graph, tree diameter, others, [JOI19_ho_t5]	8		[46]			
<a href="#">Baltic 17-Friends</a>	backtrack, [https://open.kattis.com/problems/friends2]	8	<a href="#">hints</a>	[5]			
<a href="#">EJOI 17-experience</a>	graph, dfs	8		[50]			
<a href="#">JOISC 18-asceticism</a>	math, eulerian numbers, combinatorics, integrals, inclusion-exclusion, [William: Would You Mind Solving This Problem?]	8	<a href="#">Sol</a>	[68]			4
<a href="#">COCI 17-gauss</a>	math, sieve, divisors, misc, long impl	8		[68]			
<a href="#">MCOCAMP 16-flippermutation</a>	math, factorization, lcm, cycles, permutations, impl	8	<a href="#">Sol (no edit)</a>	[85]			
<a href="#">CEOI 16-match</a>	dp, dp_ranges or greedy, d&c, [first Subtask : Ranges dp second Subtask : Ranges d]	7.75	<a href="#">Sol</a>	[31]	p5	2	10
<a href="#">APIO 18-circlesselection</a>	geometry, sweep line, circles, datastructures, greedy, [editorial https://codeforces.com/contest/1092/editorial]	7.75	<a href="#">Sol</a>	[44]	p5	3	7
<a href="#">CEOI 14-wall</a>	graph, dijkstra, [editorial]	7.75	<a href="#">Sol</a>	[52]	p5	1	6
<a href="#">CEOI 09-Boxes</a>	sqrt decomposition, ad-hoc, interactive	7.75	<a href="#">Sol</a>	[126]	p4		1
<a href="#">CEOI 12-circuit [2]</a>	geometry, polygon, visibility, [interesting o(n) sol]	7.75	<a href="#">Sol</a>	[40]	p4		1
<a href="#">COI 14-grad</a>	graph, lca, <b>hard impl</b>	7.75	<a href="#">Editorial</a>	[65]	p4		3
<a href="#">IOI 09-archery</a>	segment tree, binary search, observations, tricky or editorial sol	7.75	<a href="#">Editorial</a>	[13]	p3	1	2
<a href="#">IOI 17-simurgh</a>	graph, scc, queries, back edges, binary search, interactive	7.75	<a href="#">Sol</a>	[61]	p3	4	8
<a href="#">JOISC 17-park</a>	binary search, bfs, interactive [See JOISC-17-abduction2.txt]	7.75	<a href="#">Sol</a>	[9]	p3		3
<a href="#">APIO 09-Convention</a>	datastructures, binary lifting, greedy, observations, [https://www.acmicpc.net/category]	7.75	<a href="#">Sol</a>	[4]	p2		4
<a href="#">APIO 12-Kunai</a>	ad-hoc, [https://tioj.ck.tp.edu.tw/problems/1519]	7.75	<a href="#">Sol</a>	[1]		2	4
<a href="#">Balkan 15-RADIO</a>	ad-hoc, impl	7.75	<a href="#">Sol (no edit)</a>	[1]			
<a href="#">APIO 14-Palindrome</a>	string processing, suffix array, impl, [=SPOJ APIO14_A, https://tioj.ck.tp.edu.tw/problems/1401]	7.75	<a href="#">Sol</a>	[104]			3
<a href="#">COI 17-trapezi</a>	dp, bitmasks, impl	7.75	<a href="#">Sol by ko_c</a>	[16]			
<a href="#">CEOI 07-Sail</a>	todo	7.75		[222]			
<a href="#">APIO 13-Toll</a>	graph, mst	7.75	<a href="#">Sol</a>	[60]		1	3
<a href="#">USACO 18jan-atlarge-plat</a>	sqrt decomposition, dfs, observations, tricky	7.5	<a href="#">Sol</a>	[126]	p5		2
<a href="#">IOI 14-holiday</a>	segment tree, d&c or bit, persistent or dp_d&c_opt	7.5	<a href="#">Sol</a>	[13]	p5	4	11
<a href="#">APIO 16-fireworks</a>	dp, slope_trick, datastructures	7.5	<a href="#">Sol</a>	[16]	p5		9
<a href="#">IZhO 17-road</a>	dp, dp_trees	7.5	<a href="#">Sol</a>	[136]	p4		2
<a href="#">JOIOC 13-synchronization</a>	bit, dfs or centroid-decomposition, segment tree or link-cut	7.5	<a href="#">Sol</a>	[15]	p4	1	8
<a href="#">Baltic 13-vim</a>	dp	7.5	<a href="#">Sol</a>	[16]	p4		2
<a href="#">Baltic 07-Sorting</a>	dp, backtrack, math	7.5	<a href="#">Editorial</a>	[16]	p4		2
<a href="#">JOISC 17-city</a>	graph, tree, [communication style]	7.5	<a href="#">Sol</a>	[46]	p4		2
<a href="#">APIO 18-duathlon</a>	graph, scc, biconnected components, impl or block cut tree, centroid	7.5	<a href="#">Sol</a>	[64]	p4	3	10
<a href="#">IOI 14-rail</a>	ad-hoc, cases analysis, observations	7.5	<a href="#">Sol</a>	[1]	p3	2	8
<a href="#">COCI 14-Divljak</a>	string processing, aho_corasick, bit or aho, hld or suffix array, bit	7.5	<a href="#">Editorial</a>	[103]	p3		1
<a href="#">USACO 18mar-trainplat</a>	sqrt decomposition	7.5		[126]	p3		1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">JOISC 17-railway_trip</a>	segment tree or sqrt decomposition or rmq, binary lifting	7.5	<a href="#">Sol</a>	[13]	p3		3
<a href="#">JOISC 19-Antennas</a>	segment tree, [offline queries]	7.5	<a href="#">Sol</a>	[13]	p3		3
<a href="#">JOISC 19-Dishes</a>	dp, datastructures	7.5		[16]	p3		1
<a href="#">CEOI 19-AmusementPark</a>	dp, dp_bitmasks, optimizations	7.5	<a href="#">Editorial</a>	[24]	p3		1
<a href="#">USACO 19dec-plat-treedepth</a>	dp, dp_counting, observations, optimizations	7.5		[26]	p3		1
<a href="#">CCOMock 17-Connection</a>	datastructures, range tree, [small-to-large], [easy idea]	7.5	<a href="#">Sol</a>	[4]	p3		2
<a href="#">JOISC 19-timeleap</a>	datastructures	7.5		[4]	p3		1
<a href="#">JOISC 19-Meetings</a>	graph, trees, interactive	7.5		[46]	p3		1
<a href="#">JOISC 19-Transportations</a>	graph, dijkstra, [communication]	7.5		[52]	p3		1
<a href="#">USACO 17mar-grass</a>	graph, mst, datastructures	7.5	<a href="#">Sol</a>	[60]	p3		2
<a href="#">JOIOC 19-Virus</a>	graph, scc, dfs, [small-to-large]	7.5	<a href="#">Sol (no edit)</a>	[61]	p3	1	2
<a href="#">IZhO 17-bomb</a>	math	7.5	<a href="#">Sol</a>	[68]	p3	1	2
<a href="#">CEOI 16-trick</a>	math, constructive	7.5	<a href="#">Sol</a>	[68]	p3	1	2
<a href="#">POI 09-Words</a>	math, fib	7.5	<a href="#">Sol</a>	[71]	p3	1	5
<a href="#">JOIOC 19-jumps</a>	segment tree	7.5	<a href="#">Sol (no edit)</a>	[13]	p2	1	2
<a href="#">dmoj ccoprep4p3</a>	graph, mst, d&c, [specific algo to learn]	7.5	<a href="#">Sol</a>	[60]	p2		1
<a href="#">IOI 11-parrots</a>	ad-hoc, data compression, BigInteger	7.5	<a href="#">Editorial</a>	[1]		2	4
<a href="#">APIO 12-Guard</a>	ad-hoc, [https://tioj.ck.tp.edu.tw/problems/1430]	7.5		[1]		1	2
<a href="#">IOI 19-line</a>	ad-hoc, impl	7.5	<a href="#">Sol</a>	[1]		1	1
<a href="#">JOISC 19-Minerals</a>	ad-hoc, d&c, [const factor optimizations]	7.5		[1]			1
<a href="#">POI 15-Desert</a>	impl??	7.5	<a href="#">Editorial</a>	[109]			
<a href="#">JOIOC 18-Collapse</a>	sqrt decomposition	7.5	<a href="#">Editorial</a>	[126]		2	2
<a href="#">Balkan 16-Lefkaritika</a>	segment tree, math, impl	7.5	<a href="#">Sol (no edit)</a>	[13]			
<a href="#">IOI 08-fish</a>	segment tree	7.5	<a href="#">Editorial</a>	[13]			
<a href="#">IOIPractice 14-grand-noi-icpc-battle-ioi14</a>	segment tree, lazy propagation, queries	7.5		[13]			
<a href="#">POI 15-Car</a>	dp	7.5	<a href="#">Editorial</a>	[16]			
<a href="#">COCI 17-dojave</a>	todo, hmm, [short code]	7.5		[222]		1	2
<a href="#">IOI 19-split</a>	todo	7.5	<a href="#">Official sol</a>	[222]		1	1
<a href="#">POI 16-Club</a>	todo, hmm, [https://www.youtube.com/watch?v=PRmAUzgbOBI]	7.5	<a href="#">Editorial</a>	[222]			
<a href="#">CCO 18-FlopSorting</a>	todo	7.5		[222]			
<a href="#">IOIPractice 17-sudoku_ioi</a>	todo	7.5		[222]			
<a href="#">JOISC 14-Constella</a>	todo, [JAPANESE]	7.5		[222]			
<a href="#">JOISC 15-ioioi_cards</a>	todo	7.5		[222]			
<a href="#">JOISC 16-Dungeon2</a>	todo, [JAPANESE]	7.5		[222]			
<a href="#">JOISC 16-Snowy</a>	todo, [JAPANESE]	7.5		[222]			
<a href="#">EJOI 17-six</a>	dp, dp_bitmasks, factorization, mod inv, misc, impl	7.5		[24]			

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<a href="#">Baltic 16-spiral</a>	geometry, impl	7.5	<a href="#">Sol(Editorial)</a>	[37]			
<a href="#">IOI Practice 14-david-copperfailed-ioi14</a>	geometry, primes, factrization	7.5		[37]			
<a href="#">Baltic 14-demarcation</a>	geometry, polygon, impl	7.5	<a href="#">Editorial</a>	[40]			
<a href="#">IOI 16-shortcut</a>	graph, datastructures, maths, [Eldar got 93]	7.5	<a href="#">Editorial</a>	[46]		3	3
<a href="#">Balkan 15-Circus</a>	graph, sp, [Tim: Works only for 51 points -> I don't know the solution but only 1 contestant solved it]	7.5	<a href="#">Sol (no editorial)</a>	[46]			1
<a href="#">IOI 06-forbidden</a>	graph, subgraph, isomorphism, [Forbidden subgraph problem], [submission problem?]	7.5	<a href="#">Editorial</a>	[46]			
<a href="#">CEOI 08-Information</a>	graph, mst, directed, arborescence	7.5	<a href="#">Editorial</a>	[60]			
<a href="#">Balkan 16-PowerTowers</a>	math, number theory, power tower	7.5	<a href="#">Editorial</a>	[68]			1
<a href="#">IZhO 19-xorsum</a>	math, countings, mods, overflows, ????	7.5		[68]			
<a href="#">Baltic 10-Mines</a>	math, mod, impl, [boring?]	7.5	<a href="#">Editorial</a>	[74]		1	1
<a href="#">JOISC 18-worstreporter3</a>	binary search	7.5	<a href="#">sol (See re)</a>	[9]			5
<a href="#">APIO 17-koala</a>	binary search, game, long impl, interactive	7.5	<a href="#">Sol</a>	[9]		1	2
<a href="#">IOI 10-hottercolder</a>	binary search, case analysis	7.5	<a href="#">Editorial</a>	[9]		2	2
<a href="#">IZhO 18-segments</a>	sqrt decomposition, long impl, [strict time]	7.4	<a href="#">Sol</a>	[126]	p2		3
<a href="#">Baltic 10-Bears</a>	geometry, rectangles, binary search	7.3	<a href="#">Sol</a>	[37]	p4		2
<a href="#">IOI 16-aliens</a>	dp, dp_alien	7.25	<a href="#">Sol</a>	[127]	p5	2	11
<a href="#">JOIOC 16-skyscraper</a>	dp, dp_component, dp_open_close, [solve CEOI 16-Kangaroo first], $[ x-y  = \max(x,y)]$	7.25	<a href="#">Sol</a>	[131]	p5		7
<a href="#">Balkan 11-timeismoney</a>	graph, mst, geometry, lines, ccw	7.25	<a href="#">Sol</a>	[60]	p5		3
<a href="#">POI 12-Prefixuffix</a>	string processing, kmp or hashing	7.25	<a href="#">Sol</a>	[102]	p4		1
<a href="#">JOISC 18-construction</a>	graph, hld, bit or link-cut tree or binary lifting, segment tree, [common trick for some]	7.25	<a href="#">Sol</a>	[122]	p4		7
<a href="#">JOISC 17-coach</a>	dp, dp_convex_hull	7.25	<a href="#">Sol</a>	[124]	p4	2	4
<a href="#">JOISC 18-bitaro</a>	sqrt decomposition, dp	7.25	<a href="#">Sol</a>	[126]	p4		12
<a href="#">POI 13-Price</a>	sqrt decomposition, dijkstra	7.25	<a href="#">Sol</a>	[126]	p4	1	4
<a href="#">IOI 08-pyramid_base</a>	segment tree or datastructures, sweep range	7.25	<a href="#">Sol</a>	[13]	p4		4
<a href="#">USACO 18dec-itoutplat</a>	bit or dp, datastructures, LIS	7.25	<a href="#">Sol</a>	[15]	p4		6
<a href="#">IOI 17-train</a>	game theory, topological sort, parity game, [solve Baltic 14-coprobber first]	7.25	<a href="#">Sol</a>	[33]	p4	2	8
<a href="#">IOI 06-points</a>	geometry, triangles, d&c, [=CF1045-D12-E with smaller constraints]	7.25	<a href="#">Sol</a>	[37]	p4		2
<a href="#">infoarena nuke [3]</a>	geometry, circles, datastructures	7.25	<a href="#">Sol</a>	[38]	p4		1
<a href="#">IOI 17-books</a>	graph, cycles, graph compression, constructive	7.25	<a href="#">Editorial</a>	[46]	p4	2	7
<a href="#">IOI 03-reverse</a>	ad-hoc, optimizations	7.25	<a href="#">Editorial</a>	[1]	p3		3
<a href="#">COCI 10-upit</a>	bbst, treap, impl	7.25	<a href="#">Sol</a>	[106]	p3		1
<a href="#">IOI 18-seats</a>	segment tree, optimizations, <b>hard impl</b>	7.25	<a href="#">Sol</a>	[13]	p3	3	5
<a href="#">Baltic 09-Monument [4]</a>	dp, stack, next greater element, preprocessing	7.25	<a href="#">Sol</a>	[16]	p3	1	5
<a href="#">COI 09-Loza</a>	dp, dsu, constructive, [small-to-large]	7.25	<a href="#">Sol</a>	[16]	p3	1	4
<a href="#">JOI 18-snakeescaping</a>	dp, dp_bitmasks or d&c, precalc	7.25	<a href="#">Sol</a>	[24]	p3	1	4
<a href="#">NOI 18-safety</a>	greedy, slope_trick	7.25	<a href="#">Editorial</a>	[32]	p3	1	4

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<a href="#">Baltic 15-edi</a>	datastructures, binary lifting, observations, [may solve similar easier first: IOI 12-scriv	7.25	<a href="#">Sol</a>	[4]	p3		1
<a href="#">IOI 16-railroad</a>	graph, mst	7.25	<a href="#">Editorial</a>	[60]	p3	2	6
<a href="#">USACO 18feb-gymnasts-plat</a>	math, combinatorics, number theory	7.25		[82]	p3		2
<a href="#">POI 12-Leveling</a>	math, extended gcd	7.25	<a href="#">Editorial</a>	[94]	p3	1	1
<a href="#">POI 16-Hydro</a>	graph, scc, biconnected components, cactus, dp_games, sparse table, [ok idea - trick	7.25	<a href="#">Sol</a>	[64]	p2	1	4
<a href="#">POI 15-Direction</a>	impl, bits	7.25	<a href="#">Editorial</a>	[109]			
<a href="#">COI 18-svjetlost</a>	segment tree, lazy, geomery, impl, [geometry part is hard]	7.25		[13]			1
<a href="#">COCI 08-Krtica</a>	dp, trees, impl, [cases]	7.25	<a href="#">Sol</a>	[16]			1
<a href="#">Baltic 19-necklace4</a>	dp, strings or randomization, [not clear editorial - assign strong guy]	7.25	<a href="#">Editorial</a>	[16]			1
<a href="#">Baltic 12-Tiny</a>	todo	7.25		[222]			
<a href="#">IOIPractice 17-mountains</a>	todo	7.25		[222]			
<a href="#">COCI 15-drzava</a>	geometry, graph, impl	7.25	<a href="#">Editorial</a>	[37]			
<a href="#">Baltic 11-Polygon</a>	geometry, polygon	7.25	<a href="#">Editorial</a>	[40]			
<a href="#">IOIPractice 16-empty-triangles</a>	geometry, polygon, convex hull-like	7.25		[42]			
<a href="#">COI 18-zagonetka</a>	graph, impl	7.25		[46]			
<a href="#">COCI 09-Poslozi</a>	graph, bfs, bidirectional or search, A*, impl	7.25	<a href="#">Editorial</a>	[48]		1	1
<a href="#">CEOI 08-Order</a>	graph, max-flow, [editorial solution <b>seems to be incorrect</b> (or I'm misunderstanding e	7.25	<a href="#">Editorial</a>	[56]			1
<a href="#">POI 05-Mirror</a>	math, ad-hoc, impl, [heavy math]	7.25	<a href="#">Editorial</a>	[68]			1
<a href="#">COI 16-palinilap</a>	string processing, hashing, binary search, palindromes	7.2	<a href="#">Sol</a>	[137]	p3		2
<a href="#">Balkan 17-Cats</a>	dp, greedy, impl, [cases, non standard]	7.1	<a href="#">Sol</a>	[16]	p4 v2	1	12
<a href="#">COI 14-gta</a>	ad-hoc, string, transformations	7.1	<a href="#">Sol</a>	[1]	p4	2	6
<a href="#">POI 08-Robinson</a>	dp, dp_convex_hull, bfs, impl, [!dp]	7.1	<a href="#">Sol</a>	[124]	p4		3
<a href="#">IOI 13-wombats</a>	segment tree, dp_knuth or dp_d&c_opt, long impl	7.1	<a href="#">Sol</a>	[13]	p4	3	8
<a href="#">APIO 17-rainbow</a>	segment tree, persistent, euler's formula or datastructures	7.1	<a href="#">Sol</a>	[13]	p4	1	6
<a href="#">IOI 12-city</a>	dp, dp_trees, [Interesting reduction to tree problem]	7.1	<a href="#">Sol</a>	[136]	p4	1	11
<a href="#">IOI 07-training</a>	dp, dp_trees, dp_bitmasks. lca	7.1	<a href="#">Sol</a>	[136]	p4	1	5
<a href="#">APIO 07-Backup</a>	greedy, matching, datastructures, [=JOISC 18-candies]	7.1	<a href="#">Sol</a>	[32]	p4		8
<a href="#">Baltic 09-Candy</a>	greedy, sorting, LIS, coordinate transformation, [if hard solve first CF76-D12-F CODE	7.1	<a href="#">Sol</a>	[32]	p4		8
<a href="#">COCI 15-Domino</a>	graph, meet in middle, dp, [remove constant factors from order] or ad-hoc	7.1	<a href="#">Sol</a>	[46]	p4		7
<a href="#">POI 16-Journey</a>	graph, scc, biconnected components, math, impl, [onion graph]	7.1	<a href="#">Sol</a>	[64]	p4		4
<a href="#">JOIOC 16-joiris</a>	math, mod, ad-hoc	7.1	<a href="#">Sol</a>	[74]	p4	2	6
<a href="#">IOI 17-wiring</a>	dp, ad-hoc, observations, partitioning	7.1	<a href="#">Sol</a>	[16]	p3	2	12
<a href="#">APIO 16-boat</a>	dp, dp_state_reduce, combinatorics, [dublicate counting]	7.1	<a href="#">Sol</a>	[18]	p3	1	6
<a href="#">Innopolis 19-Q1-D</a>	todo	7.1		[222]	p3		2
<a href="#">Innopolis 20-Q1-D</a>	todo	7.1		[222]	p3		
<a href="#">IOIPractice 19-Job</a>	greedy, trees, exchange argument, small-to-large	7.1	<a href="#">Sol</a>	[32]	p3		4

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">JOISC 17-dragon2</a>	geometry, sweep line, angular sweep, bit, sqrt decomposition, impl	7.1	<a href="#">Sol</a>	[44]	p3		2
<a href="#">USACO 19jan-exercise</a>	graph, trees, datastructures, [cases]	7.1		[46]	p3	1	7
<a href="#">POI 14-Supercomputer</a>	graph, upper hull of functions, [similar to convex hull trick]	7.1	<a href="#">Sol</a>	[46]	p3		4
<a href="#">IOI 18-werewolf</a>	graph, dsu, dsu on trees, bit, [new trick to find common elements b/w two subtrees, lr]	7.1	<a href="#">Sol</a>	[53]	p3	2	10
<a href="#">POI 08-Escape</a>	dp, dp_subrectangle, [count paths, cases, sstrict ml]	7.1	<a href="#">Sol</a>	[20]	p2		3
<a href="#">APIO 14-Beads</a>	dp, dp_sibling, [hard impl and tricky cases]	7.1	<a href="#">Sol</a>	[115]		2	5
<a href="#">ROJS 17-chromatic_number</a>	dp, dijkstra, palindromes	7.1		[16]			1
<a href="#">POI 14-Around</a>	greedy	7.1		[32]			2
<a href="#">IOI 18-highway</a>	graph, dijkstra, binary search, impl	7.1	<a href="#">Editorial</a>	[52]		2	3
<a href="#">APIO 11-Color [5]</a>	graph, dfs, eqs or 2-sat, xor	7	<a href="#">Sol</a>	[50]	p5	1	9
<a href="#">Balkan 12-ShortestPaths [6]</a>	graph, dijkstra, shortest path tree, [tight limit on: <a href="https://www.spoj.com/problems/SPAT">https://www.spoj.com/problems/SPAT</a> ]	7	<a href="#">Sol</a>	[52]	p5		9
<a href="#">IOI 16-messy</a>	ad-hoc, interactive, d&c, bits, [hard to impl]	7	<a href="#">Sol</a>	[1]	p4		14
<a href="#">JOISC 18-airline</a>	ad-hoc, interactive, DAG, [communication style]	7	<a href="#">Sol</a>	[1]	p4		5
<a href="#">MCO 17-MagicalTeleporter</a>	dp, dp_component, [solve CEOI 16-kangaroo first]	7	<a href="#">Editorial</a>	[131]	p4	3	7
<a href="#">COCI 12-mars</a>	dp, dp_ranges, trees	7	<a href="#">Find O(N^2)</a>	[31]	p4	1	7
<a href="#">JOIOC 17-bulldozer</a>	geometry, segment tree, [optimization]	7	<a href="#">Sol</a>	[37]	p4		5
<a href="#">COI 15-cvenk</a>	graph, trees, constructive, impl, [sierpinski's triangle]	7	<a href="#">Sol</a>	[46]	p4	1	7
<a href="#">POI 05-Parties</a>	graph, constructive, recursion, observation, induction, [in Looking for a Challenge book]	7	<a href="#">Sol</a>	[46]	p4	1	5
<a href="#">Baltic 14-sequence</a>	backtrack, math, bitmasks, constructive, d&c	7	<a href="#">Sol</a>	[5]	p4	2	7
<a href="#">POI 10-Bridges</a>	graph, max-flow, euler cycle	7	<a href="#">Sol</a>	[56]	p4	1	3
<a href="#">IOI 10-saveit [7]</a>	graph, mst, data compression	7	<a href="#">Sol</a>	[60]	p4	1	10
<a href="#">IOI 15-towns</a>	ad-hoc, interactive	7	<a href="#">Sol</a>	[1]	p3	1	2
<a href="#">JOIOC 16-selling_rna</a>	string processing, trie, sweep or 2D trie or trie, bit	7	<a href="#">Sol</a>	[101]	p3		4
<a href="#">infoarena disconnect</a>	graph, hld, impl, [is similar to JOIOC 13-synchronization?]	7	<a href="#">Sol</a>	[122]	p3		2
<a href="#">APIO 19-bridges</a>	sqrt decomposition, dsu, [constant factorization]	7	<a href="#">Sol</a>	[126]	p3		5
<a href="#">POI 04-Cave</a>	dp, dp_trees	7	<a href="#">Sol</a>	[136]	p3		4
<a href="#">COCI 16-zoltan</a>	bit, dp, LIS, math, mod, overflow, impl	7	<a href="#">Sol</a>	[15]	p3	1	6
<a href="#">CEOI 09-Sorting</a>	dp	7	<a href="#">Sol</a>	[16]	p3	2	5
<a href="#">LMIO 19-bulves</a>	dp, slope_trick	7	<a href="#">Sol</a>	[16]	p3		1
<a href="#">infoarena sms</a>	dp, dp_probability, dp_expectation, linearity of expectation	7	<a href="#">Sol</a>	[30]	p3		1
<a href="#">APIO 11-Path</a>	graph, sp, grid compress, sweep line, impl	7	<a href="#">Sol</a>	[46]	p3	1	5
<a href="#">NOI 18-citymapping</a>	graph, bfs, tree diameter, interactive or randomization	7	<a href="#">Sol</a>	[49]	p3	2	6
<a href="#">JOI 17-soccer</a>	graph, dijkstra, impl	7	<a href="#">Editorial</a>	[52]	p3		2
<a href="#">Balkan 18-minmaxtree</a>	graph, max-flow, bipartite match	7	<a href="#">Sol</a>	[58]	p3	1	5
<a href="#">POI 16-Arkanoid</a>	math, geometry, simulation, observations to speed	7	<a href="#">Sol</a>	[68]	p3		1
<a href="#">infoarena countfefete [8]</a>	math, inclusion-exclusion, bitmasks, dsu	7	<a href="#">Sol</a>	[86]	p3		3

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 09-Gremlin</a>	math, matrix, matrix pow, dp, graph, binary search, math	7	<a href="#">Sol</a>	[89]	p3		3
<a href="#">CEOI 16-icc [9]</a>	binary search, dsu, huffman tree, dsu	7	<a href="#">Sol</a>	[9]	p3	2	11
<a href="#">IOI 13-game</a>	segment tree, dynamic, 2D segment tree, impl or 1D treap, [easy idea - <b>hard impl</b> ]	7	<a href="#">Editorial</a>	[13]	p2	3	9
<a href="#">JOISC 18-wildboar</a>	segment tree, dijkstra, d&c	7	<a href="#">Sol</a>	[13]	p2	2	4
<a href="#">COCI 19-suncanje</a>	bit, merge sort tree, tough impl	7	<a href="#">Sol</a>	[15]	p2		2
<a href="#">DMOPC 18-StandingOvation</a>	todo	7		[222]	p2		1
<a href="#">APIO 13-Robots</a>	dp, dp_table, bfs, long impl, [tight time]	7	<a href="#">Sol</a>	[23]	p2	2	5
<a href="#">COCI 07-Kocke</a>	simulation, bfs, impl, [smart impl], [easy idea]	7	<a href="#">Sol</a>	[3]	p2		1
<a href="#">Balkan 11-2circles</a>	geometry, binary search, long impl, half-plane intersection	7	<a href="#">Sol</a>	[37]	p2		1
<a href="#">COI 15-ogledala</a>	datastructures, binary search, impl	7	<a href="#">Editorial</a>	[4]	p2		2
<a href="#">JOISC 18-fences</a>	geometry, polygon, floyd, cases, [simpler version Baltic 07-Fence (less geom)]	7	<a href="#">Sol</a>	[40]	p2		1
<a href="#">Baltic 11-Mirroring</a>	graph, cycles, bfs, long impl, [cases]	7	<a href="#">Sol</a>	[46]	p2	1	2
<a href="#">COI 06-Policija</a>	graph, scc, articulation point, lca, bridges, impl, [easy idea]	7	<a href="#">Sol</a>	[63]	p2		4
<a href="#">JOISC 17-arranging_tickets</a>	binary search	7	<a href="#">Sol</a>	[9]	p2	1	2
<a href="#">Balkan 11-cmp</a>	ad-hoc	7	<a href="#">Editorial</a>	[1]			5
<a href="#">POI 10-Hamsters</a>	ad-hoc?	7	<a href="#">Editorial</a>	[1]		2	3
<a href="#">CEOI 14-questiongrader</a>	ad-hoc, encoding, [different grader, where statement?], [Sperner's theorem]	7		[1]			3
<a href="#">IZhO 18-NiceGift</a>	ad-hoc, logic	7		[1]		1	3
<a href="#">POI 06-Crystals</a>	ad-hoc	7	<a href="#">Editorial</a>	[1]		1	2
<a href="#">IOI 05-garden</a>	ad-hoc, sliding window, dp	7	<a href="#">Editorial</a>	[1]		1	1
<a href="#">ROUSlection 18-anagram_sort</a>	ad-hoc, permutations, interactive, [HKOI 11-stones]	7		[1]			1
<a href="#">IOI 06-blackbox</a>	<del>ad-hoc, [avoid, weird, stef don't understand problem nature]</del>	7	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 17-retro</a>	ad-hoc, string parsing	7		[1]			
<a href="#">COCI 18-kotrljanje</a>	ad-hoc, math, [very short code? maybe trivial]	7		[1]			
<a href="#">IOIPractice 16-telegraph</a>	ad-hoc, quick sort, [judge not working]	7		[1]			
<a href="#">IZhO 12-xor</a>	string processing, trie, greedy, tree	7		[101]		1	3
<a href="#">POI 15-Necklace</a>	impl, trees	7	<a href="#">Editorial</a>	[109]			
<a href="#">Baltic 15-bow</a>	dp, dp_build_output, impl, cases, optimization, [boring]	7	<a href="#">Sol</a>	[111]			1
<a href="#">IZhO 18-sequence</a>	graph, dfs, topological sort, binary search	7		[119]			2
<a href="#">JOISC 19-designated-cities</a>	graph, centroid-decomposition, dp_trees, [has another nice sol]	7		[123]			1
<a href="#">infoarena bvarcolaci</a>	sqrt decomposition, math, dp, [Romanian txt], [A rather classical problem, turned into	7	<a href="#">Sol</a>	[126]			1
<a href="#">Balkan 15-Happiness</a>	segment tree, implicit, [hard text?]	7	<a href="#">Sol (no edit</a>	[13]			2
<a href="#">infoarena kinder</a>	segment tree, trie, [classical]	7	<a href="#">Sol</a>	[13]			1
<a href="#">IZhO 12-apple</a>	segment tree, dynamic	7		[13]			1
<a href="#">USACO 20feb-help</a>	segment tree, dp	7		[13]			1
<a href="#">Balkan 12-Spiral</a>	segment tree, dp, impl	7	<a href="#">Sol (no edit</a>	[13]			



Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">ROUSelection 18-xor_transform</a>	dp, dp_sos, lucas's theorem, observations	7		[134]			1
<a href="#">JOISC 19-Cake3</a>	bit, d&c, [similar to IOI 14-holiday]	7		[15]			2
<a href="#">Balkan 18-homecoming</a>	dp, observations	7	#ERROR!	[16]			2
<a href="#">CEOI 06-Walk</a>	dp, dp_output, tournament tree, [sp in grid with buildings]	7	<a href="#">Sol</a>	[16]			2
<a href="#">infoarena cladiri</a>	dp, ternary search, [Romanian txt]	7	<a href="#">Sol</a>	[16]			1
<a href="#">infoarena zuma</a>	dp, strings, [Romanian txt]	7	<a href="#">Sol</a>	[16]			1
<a href="#">COI 10-kamion</a>	dp	7	<a href="#">Sol</a>	[16]			1
<a href="#">IOI 00-Blocks</a>	bf, <b>long</b> impl	7	<a href="#">Sol</a>	[2]			1
<a href="#">POI 08-Trains</a>	todo, impl	7	<a href="#">Editorial</a>	[222]		1	1
<a href="#">COCI 08-Cavli</a>	todo, geometry	7	<a href="#">Editorial</a>	[222]			
<a href="#">CEOI 10-Arithmetic</a>	todo	7		[222]			
<a href="#">CEOI 10-Bodyguards</a>	todo	7		[222]			
<a href="#">COI 17-raspad</a>	todo, hmm, dijkstras?	7		[222]			
<a href="#">IOIPractice 17-cup</a>	todo	7		[222]			
<a href="#">JOISC 13-Cake</a>	todo, [ <b>JAPANESE</b> ]	7		[222]			
<a href="#">JOISC 14-Kanji</a>	todo, [ <b>JAPANESE</b> ]	7		[222]			
<a href="#">JOISC 14-Scarecrow</a>	todo, [ <b>JAPANESE</b> ]	7		[222]			
<a href="#">JOISC 15-Walls</a>	todo, [ <b>JAPANESE</b> ]	7		[222]			
<a href="#">JOISC 16-Memory2</a>	todo, [ <b>JAPANESE</b> ]	7		[222]			
<a href="#">CEOI 06-Connect</a>	dp, dp_bitmasks, [cases]	7	<a href="#">Sol</a>	[24]		1	6
<a href="#">infoarena anagrame</a>	greedy, strings, [Romanian txt]	7	<a href="#">Sol</a>	[32]			1
<a href="#">CEOI 04-Clouds</a>	geometry, impl, [your own 128 bit], [idea not hard]	7	<a href="#">Sol</a>	[37]			1
<a href="#">COCI 17-paralelogrami</a>	geometry, bfs, impl, [No local submissions]	7	<a href="#">Editorial</a>	[37]			
<a href="#">POI 11-wyk</a>	geometry, ad-hoc, impl	7	<a href="#">Editorial</a>	[37]			
<a href="#">CEOI 09-Tri</a>	geometry	7	<a href="#">Editorial</a>	[37]			
<a href="#">CEOI 13-adriatic</a>	datastructures, optimization	7	<a href="#">Sol</a>	[4]			1
<a href="#">APIO 10-Signaling</a>	geometry, sweep line, circles, combinatorics, impl, interactive, [https://tioj.ck.tp.edu.tw/]	7	<a href="#">Sol</a>	[44]			3
<a href="#">JOISC 17-cultivation</a>	geometry, sweep line, datastructures, impl	7	<a href="#">Sol</a>	[44]			
<a href="#">POI 15-Speed</a>	geometry, sweep line	7	<a href="#">Editorial</a>	[44]			
<a href="#">IOIPractice 16-network-rumour</a>	geometry, sweep line, segment tree or sweep, bit, [ <b>judge not working</b> ]	7		[44]			
<a href="#">POI 04-Calgae</a>	graph, impl, [sol translation doesn't work]	7	<a href="#">Editorial</a>	[46]			1
<a href="#">Balkan 16-Acrobat</a>	graph, 2-sat ?	7	<a href="#">Sol (no edit)</a>	[46]			
<a href="#">COCI 09-Holmes</a>	<del>graph theory, ad-hoc, [weird, avoid]</del>	7	<a href="#">Editorial [10]</a>	[46]			
<a href="#">POI 15-Highway</a>	graph, dfs, impl	7	<a href="#">Editorial</a>	[50]			
<a href="#">NOI 15-sudoku</a>	graph, dijkstra	7	<a href="#">Editorial</a>	[52]		2	2
<a href="#">USACO 19mar-Valleys-plat</a>	graph, dsu, Euler's formula	7	<a href="#">Sol</a>	[53]			1



Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 19-teoreticar</a>	graph, euler tour	7		[54]			1
<a href="#">infoarena drumuri5 [11]</a>	graph, scc, topo sort, dp, impl	7	<a href="#">Sol</a>	[61]			1
<a href="#">IOIPractice 16-tree-nodes-destruction</a>	graph, lca, greedy, [, <b>[judge not working]]</b>	7		[65]			
<a href="#">COCI 17-sazetak</a>	math, mod inv, lcm, search	7		[96]			
<a href="#">POI 04-Tournament</a>	ad-hoc, games or scc, topological sort, MLE	6.9	<a href="#">Sol</a>	[1]	p4		10
<a href="#">infoarena xortransform</a>	dp, dp_sos, lucas' theorem, xor, [solve first CSA78-E, a bit similar]	6.9	<a href="#">Sol</a>	[134]	p4		7
<a href="#">COCI 16-kralj</a>	greedy, dsu, observation	6.8	<a href="#">Sol</a>	[32]	p5	3	9
<a href="#">APIO 10-Patrol</a>	dp, dp_sibling, [cases]	6.8	<a href="#">Sol</a>	[115]	p4		11
<a href="#">Balkan 18-election</a>	segment tree	6.8	<a href="#">Sol</a>	[13]	p4		10
<a href="#">JOI 13-BubbleSort [12]</a>	bit, d&c or segment tree, lazy, bit, stack-style observation	6.8	<a href="#">Sol</a>	[15]	p4		6
<a href="#">COCI 16-burza</a>	dp, dp_bitmasks, dfs, game, induction principle	6.8	<a href="#">Sol</a>	[24]	p4		8
<a href="#">POI 16-Not Nim</a>	game theory, math, greedy, [split to 2 sub-games - long proof]	6.8	<a href="#">Sol</a>	[33]	p4		6
<a href="#">POI 09-Walk</a>	graph, bfs, impl, implicit graph, [bfs to avoid cycle in dp], [strict tl/ml]	6.8	<a href="#">Sol</a>	[48]	p4		8
<a href="#">JOISC 15-navigation</a>	graph, dfs, trees, [communication style], [interesting use of the values of the nodes, o	6.8	<a href="#">Sol</a>	[50]	p4		9
<a href="#">COI 15-zarulje</a>	math, mod inv, combinatorics, stack, impl	6.8	<a href="#">Sol</a>	[96]	p4		5
<a href="#">IOI 09-salesman</a>	dp, dp_convex_hull, bit or dp, segment tree	6.8	<a href="#">Sol</a>	[124]	p3	1	8
<a href="#">POI 09-Island</a>	dp, dp_convex_hull, geometry	6.8	<a href="#">Sol</a>	[124]	p3	1	2
<a href="#">USACO 18mar-sortplat</a>	bit, observation	6.8		[15]	p3	3	7
<a href="#">Baltic 15-tug</a>	dp, bitset, knapsack optimization	6.8	<a href="#">Sol</a>	[16]	p3	1	9
<a href="#">COI 08-Izbori</a>	dp, binary search	6.8	<a href="#">Sol</a>	[16]	p3		5
<a href="#">POI 16-Nim</a>	dp, dp_counting, dp_table, xor, indepdence, game theory (nim), [strict mem]	6.8	<a href="#">Sol</a>	[26]	p3		4
<a href="#">IOI 19-rect</a>	datastructures, stack or segment tree	6.8	<a href="#">Sol</a>	[4]	p3	2	6
<a href="#">infoarena ssdj [13]</a>	datastructures, stack, prefix max, impl	6.8	<a href="#">Sol</a>	[4]	p3		5
<a href="#">COI 19-izlet</a>	graph, constructive, trees, dsu, dfs	6.8	<a href="#">Editorial</a>	[46]	p3		5
<a href="#">POI 09-Code</a>	graph, dfs, trees	6.8	<a href="#">Sol</a>	[50]	p3	1	4
<a href="#">COCI 17-simi</a>	graph, mst, <b>sieve</b> , math	6.8	<a href="#">Sol</a>	[60]	p3		5
<a href="#">infoarena engineer</a>	binary search, parallel binary search, datastructures	6.8	<a href="#">Sol</a>	[9]	p3		3
<a href="#">POI 08-Kingdom</a>	bf, <b>optimizations</b> , mask	6.8	<a href="#">Editorial</a>	[2]	p2	1	4
<a href="#">POI 08-Triangles</a>	geometry, binary search	6.8	<a href="#">Sol</a>	[37]	p2		2
<a href="#">IOI 18-doll</a>	segment tree, constructive, bst, simulation	6.75	<a href="#">Sol</a>	[13]	p5	2	18
<a href="#">POI 06-Tetris_3D</a>	segment tree, 2d, [properties allowed 2d]	6.75	<a href="#">Sol</a>	[13]	p5		8
<a href="#">COI 07-Umnozak</a>	dp, dp_digit	6.75	<a href="#">Sol</a>	[114]	p4	1	10
<a href="#">COCI 08-Periodni</a>	dp, dp_counting, mod inv, trees	6.75	<a href="#">Sol</a>	[26]	p4		8
<a href="#">POI 06-Ploughing</a>	greedy, dp, 2d prefix sums	6.75	<a href="#">Sol</a>	[32]	p4	1	9
<a href="#">ROUSelection 17-1-rooms</a>	greedy, flood-fill, <b>prefix sums</b>	6.75	<a href="#">Sol</a>	[32]	p4		8
<a href="#">COCI 06-Prostor</a>	geometry, sweep line, 2d bit, [cuboid intersections]	6.75	<a href="#">Sol</a>	[44]	p4	1	5

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">POI 12-Salaries</a>	graph, greedy	6.75	<a href="#">Sol</a>	[46]	p4		8
<a href="#">POI 06-Frogs</a>	graph, dijkstra, eculidan distances, observations	6.75	<a href="#">Sol</a>	[52]	p4	2	7
<a href="#">JOISC 17-PortFacility</a>	segment tree, greedy, bipartite graph or dsu, odd cycle	6.75	<a href="#">Sol</a>	[13]	p3 v2		12
<a href="#">IZhO 19-segments</a>	dp, binary search, greedy	6.75	<a href="#">Sol. See Sc</a>	[16]	p3 v2	1	5
<a href="#">APIO 15-bridge</a>	datastructures, math, <b>median</b> , [solve IOI 11-ricehub first]	6.75	<a href="#">Sol</a>	[4]	p3 v1	1	10
<a href="#">APIO 16-gap</a>	ad-hoc, d&c, interactive, pigeonhole principle	6.75	<a href="#">Sol</a>	[1]	p3		11
<a href="#">IZhO 19-Xoractive</a>	ad-hoc, bits, interactive	6.75	<a href="#">Sol</a>	[1]	p3		7
<a href="#">IOI 12-supper</a>	ad-hoc, datastructures, [communication], [solve POI 05-ToyCars first]	6.75	<a href="#">Editorial</a>	[1]	p3	1	6
<a href="#">Info1Cup 18-Hidden</a>	ad-hoc, interactive, impl	6.75	<a href="#">Sol</a>	[1]	p3		4
<a href="#">COI 15-nafta</a>	dp, dp_d&c_opt	6.75	<a href="#">Sol</a>	[112]	p3		7
<a href="#">RusOI-reg 13-capitals</a>	graph, centroid-decomposition, dsu-on-trees, dp, number theory	6.75	<a href="#">Sol</a>	[123]	p3	1	6
<a href="#">POI 16-Christmas</a>	sqrt decomposition, dsu or bit, binary search, dsu	6.75	<a href="#">Sol</a>	[126]	p3		4
<a href="#">NOI 19-feast</a>	dp, dp_alien or greedy, dp, [solve APIO 07-backup first], [=SACO 2008 Banquet]	6.75	<a href="#">Sol</a>	[127]	p3		3
<a href="#">COCI 14-norma</a>	segment tree, <b>impl</b> , [__int128 simplifies] or math, binary search	6.75	<a href="#">Sol</a>	[13]	p3	1	6
<a href="#">infoarena fft2d [14]</a>	dp, graph, datastructures	6.75	<a href="#">Sol</a>	[16]	p3	1	6
<a href="#">infoarena turnuri</a>	dp, deque or math, stack, [strict TL]	6.75	<a href="#">Sol</a>	[16]	p3		6
<a href="#">JOISC 17-abduction2</a>	dp, rmq	6.75	<a href="#">Sol</a>	[16]	p3		4
<a href="#">infoarena matcnt [15]</a>	dp, graph, math	6.75	<a href="#">Sol</a>	[16]	p3		3
<a href="#">CEOI 12-race</a>	dp, dp_ranges, [tricky states], [solve IOI 06-mexico first]	6.75	<a href="#">Sol</a>	[31]	p3	1	5
<a href="#">Balkan 18-popa</a>	greedy, graph, math, interactive	6.75	<a href="#">Sol</a>	[32]	p3		5
<a href="#">CEOI 08-Fence</a>	geometry, polygon, convex hull, floyd, cycles	6.75	<a href="#">Sol</a>	[42]	p3		3
<a href="#">infoarena shgraf [16]</a>	graph, Cayley's formula, dp_counting	6.75	<a href="#">Sol</a>	[46]	p3		5
<a href="#">COCI 16-zamjene</a>	graph, dsu, hashing	6.75	<a href="#">Sol</a>	[53]	p3		6
<a href="#">infoarena unique [17]</a>	graph, dsu, datastructures or bit	6.75	<a href="#">Sol</a>	[53]	p3		5
<a href="#">NOI 19-riggedroads</a>	graph, dsu, hard to impl or lca	6.75	<a href="#">Sol</a>	[53]	p3		5
<a href="#">CEOI 04-Sweets</a>	math, inclusion-exclusion, pascal, stars and bars] or dp_counting	6.75	<a href="#">Sol</a>	[68]	p3		3
<a href="#">POI 11-sej</a>	math, factorization, dfs	6.75	<a href="#">Sol</a>	[85]	p3	1	4
<a href="#">Baltic 06-RLE</a>	impl, observations, [careful impl]	6.75	<a href="#">Sol</a>	[109]	p2		4
<a href="#">Balkan 12-BestTeams</a>	segment tree, impl	6.75	<a href="#">Sol</a>	[13]	p2	1	5
<a href="#">COCI 09-Aladin</a>	segment tree, math, [standard]	6.75	<a href="#">Sol</a>	[13]	p2	1	3
<a href="#">COCI 14-Kamioni</a>	geometry, sweep line, impl	6.75	<a href="#">Sol</a>	[44]	p2		2
<a href="#">POI 06-Sophie</a>	graph, backtrack, greedy, [optimizations, max-independent-set NP hard]	6.75	<a href="#">Sol</a>	[46]	p2	1	5
<a href="#">IOI 15-scales</a>	backtrack, heuristics, <b>hard impl</b> , [not insightful]	6.75	<a href="#">Editorial</a>	[5]	p2	3	5
<a href="#">IOI 11-elephants</a>	sqrt decomposition, online insertion/deletion or link-cut tree, greedy	6.75	<a href="#">Sol</a>	[126]	p1	2	8
<a href="#">IOI 15-teams</a>	segment tree, greedy, persistent, binary search, [Combination of standard techniques]	6.75	<a href="#">Editorial</a>	[13]	p1	1	4
<a href="#">IZhO 14-marriage</a>	graph, max-flow, bipartite match, two pointers	6.75	<a href="#">Sol</a>	[58]	p1		2

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">POI 10-Ones</a>	<del>ad-hoc, bits, bignum, [annoying, avoid]</del>	<del>6.75</del>	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 17-klavir</a>	string processing, kmp, expected value	6.75	<a href="#">Sol</a>	[102]			2
<a href="#">POI 11-okr</a>	string processing, kmp, periods	6.75	<a href="#">Sol</a>	[102]			1
<a href="#">Baltic 08-Magical</a>	dp, dp_digit, <b>annoying impl</b>	6.75	<a href="#">Sol</a>	[114]			1
<a href="#">IOI 14-wall</a>	segment tree, lazy propagation	6.75	<a href="#">Editorial</a>	[13]			6
<a href="#">JOIOC 18-CatsorDogs</a>	dp, dp_trees, hld	6.75	<a href="#">Editorial</a>	[136]		1	2
<a href="#">Baltic 19-necklace1</a>	string processing, ad-hoc	6.75	<a href="#">Sol</a>	[137]		1	4
<a href="#">JOISC 18-tents</a>	dp, simple combinatorics	6.75	<a href="#">sol (See re:</a>	[16]			5
<a href="#">POI 07-Quaternary</a>	dp, bignum, base conversion	6.75	<a href="#">Sol</a>	[16]			1
<a href="#">CCO 12-WindsOfWar</a>	dp, convex hull	6.75		[16]			1
<a href="#">JOISC 18-security_gate</a>	dp, impl	6.75		[16]			
<a href="#">CEOI 07-Necklace</a>	todo	6.75		[222]			
<a href="#">POI 14-Lamps</a>	todo	6.75		[222]			
<a href="#">CEOI 12-highway</a>	greedy, observation, impl, [cases]	6.75	<a href="#">Sol</a>	[32]			2
<a href="#">POI 05-Camel</a>	geometry, impl	6.75	<a href="#">Editorial</a>	[37]			
<a href="#">POI 08-Plot</a>	geometry	6.75	<a href="#">Editorial</a>	[37]			
<a href="#">POI 10-Lamp</a>	geometry, rectangles, impl ?	6.75	<a href="#">Editorial</a>	[37]			
<a href="#">CEOI 18-Tri</a>	geometry, polygon, convex hull, [merge hulls]	6.75		[42]		1	4
<a href="#">POI 14-AntColony_Mro</a>	<del>graph, trees, [problem doesn't open]</del>	<del>6.75</del>		[46]			1
<a href="#">Baltic 15-fil</a>	graph, dfs, cycles	6.75	<a href="#">Sol</a>	[50]			2
<a href="#">COI 06-Sabor</a>	graph, dfs, math	6.75	<a href="#">Editorial</a>	[50]			2
<a href="#">IOI 15-sorting</a>	binary search	6.75	<a href="#">Sol</a>	[9]		2	10
<a href="#">USACO 20feb-deleg</a>	binary search	6.75		[9]			1
<a href="#">IOI 19-vision</a>	ad-hoc, constructive, interactive, manhattan distance, hard to impl	6.7	<a href="#">Sol</a>	[1]	p5		7
<a href="#">COI 19-tenis</a>	segment tree, lazy, graph, dynamic connectivity	6.7	<a href="#">Sol</a>	[13]	p4		7
<a href="#">COI 15-ruka</a>	bit or datastructures. <b>tricky to impl</b>	6.7	<a href="#">Sol</a>	[15]	p4		8
<a href="#">CEOI 19-MagicTree</a>	dp, dsu, map, [small-to-large]	6.7	<a href="#">Sol</a>	[16]	p4		7
<a href="#">POI 06-Aesthetics</a>	dp, binary search, [trick to reduce order]	6.7	<a href="#">Sol</a>	[16]	p4	1	6
<a href="#">APIO 17-merchant</a>	graph, floyd, binary search	6.7	<a href="#">Sol</a>	[55]	p4		11
<a href="#">COCI 09-Palacinke</a>	math, matrix, matrix pow, inclusion-exclusion, matrix difference, [reccurence on a gra	6.7	<a href="#">Sol</a>	[89]	p4		9
<a href="#">USACO 16dec-roboherd-plat</a>	binary search, datastructures	6.7		[9]	p4		5
<a href="#">IOIPractice 16-k-consecutive</a>	dp, permutations, [split to 2 seperate subproblems], [=infoarena kcons]	6.7	<a href="#">Sol</a>	[16]	p3		6
<a href="#">infoarena xreverse [18]</a>	dp, dp_d&c	6.7	<a href="#">Sol</a>	[16]	p3	1	5
<a href="#">POI 04-Maximal</a>	dp, cyclic permutation, primes, gcd, bignum [using double percision], [smaller constr	6.7	<a href="#">Sol</a>	[16]	p3	1	5
<a href="#">Baltic 06-Bitwise</a>	greedy, bits, impl, [misleading constraints]	6.7	<a href="#">Sol</a>	[32]	p3	2	8
<a href="#">POI 15-Three</a>	ad-hoc, observations, [casework]	6.7	<a href="#">Sol</a>	[1]	p2		4

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">infoarena deletgcd [19]</a>	math, sieve, datastructures, impl	6.7	<a href="#">Sol</a>	[93]	p2		5
<a href="#">NOI 14-obelisk</a>	graph, floyd, implicit graph, math, impl, [last task tedious]	6.7	<a href="#">Sol</a>	[55]		5	9
<a href="#">IOI 07-sails [20]</a>	segment tree, greedy, sweep, observations or bit, [solve first CSA41-E <a href="https://csacademy.com/contest/IOI-07/sails/">https://csacademy.com/contest/IOI-07/sails/</a> ]	6.6	<a href="#">Sol</a>	[13]	p4		14
<a href="#">IZhO 17-subsequence</a>	dp, dp_bitmasks, meet in middle, [strict time]	6.6	<a href="#">Sol</a>	[24]	p4		11
<a href="#">POI 04-Gates</a>	greedy, [choose-later-correct]	6.6	<a href="#">Sol</a>	[32]	p4	3	8
<a href="#">infoarena ratway</a>	graph, euler tour	6.6	<a href="#">Sol</a>	[54]	p4		4
<a href="#">POI 05-Fibonacci</a>	greedy, fibonacci, constructive	6.6	<a href="#">Sol</a>	[32]	p3 v3	2	7
<a href="#">IOI 04-empodia</a>	ad-hoc, sweep, bit or stack, set	6.6	<a href="#">Sol</a>	[1]	p3 v2		9
<a href="#">COCI 15-uzastopni</a>	dp, dp_trees, bitset	6.6	<a href="#">Sol</a>	[136]	p3 v2		13
<a href="#">COCI 17-osmosmjerka</a>	string processing, hashing, probability, [double hashing]	6.6	<a href="#">Sol</a>	[137]	p3	1	6
<a href="#">COCI 14-Stanovi</a>	dp, dp_subrectangle, dp_counting, impl	6.6	<a href="#">Sol</a>	[20]	p3		6
<a href="#">Baltic 17-PoliticalDevelopment</a>	graph, bf, clique, [fixed parameter technique (FPT)]	6.6	<a href="#">Sol</a>	[46]	p3		11
<a href="#">COCI 14-Police</a>	graph, dfs, lis, combinatorics	6.6	<a href="#">Sol</a>	[50]	p3	1	6
<a href="#">POI 11-Contest</a>	graph, max-flow, bipartite match, [variant]	6.6	<a href="#">Sol</a>	[58]	p3	2	5
<a href="#">IOI 01-depot</a>	bf, ad-hoc, permutations, [optimizations is the hard part]	6.6	<a href="#">Sol</a>	[2]	p2	3	7
<a href="#">CEOI 08-Snake</a>	binary search, interactive, [tedious]	6.6	<a href="#">Sol</a>	[9]	p2	2	6
<a href="#">CEOI 11-Teams</a>	datastructures, stack, impl or dp	6.6	<a href="#">Sol. Find O</a>	[4]		1	2
<a href="#">Baltic 16-cities</a>	graph, dijkstra, masks, steiner trees	6.5	<a href="#">Sol</a>	[52]	v2	1	5
<a href="#">Baltic 14-coprobber</a>	graph, dfs, topological sort, game theory, [interesting topo]	6.5	<a href="#">Sol</a>	[119]	p4 v2	1	20
<a href="#">USACO 18mar-sortgold</a>	datastructures, heap, observation or bit	6.5	<a href="#">Sol [21]</a>	[4]	p4 v2		12
<a href="#">IOI 02-Utopia [22]</a>	ad-hoc, constructive, [independence], [seems very close to IOI 05-birthday]	6.5	<a href="#">Sol</a>	[1]	p4		6
<a href="#">POI 05-Template</a>	string processing, kmp, observations	6.5	<a href="#">Sol</a>	[102]	p4		3
<a href="#">CEOI 16-Kangaroo</a>	dp, dp_component	6.5	<a href="#">Sol</a>	[131]	p4	6	22
<a href="#">IOI 05-rivers</a>	dp, dp_trees, floyd, [harder limits CEOI Practice 17-Museum]	6.5	<a href="#">Sol</a>	[136]	p4	1	9
<a href="#">Baltic 10-Candies</a>	dp, knapsack, ad-hoc, prime module, [some tricks in also CF981-D12-E]	6.5	<a href="#">Sol</a>	[16]	p4	1	10
<a href="#">USACO 12nov-cbs-gold</a>	datastructures or segment tree, persistent [ <a href="https://github.com/win11905/submission/blob/master/USACO%2012%20Nov%20cbs%20gold/USACO12nov-cbs-gold.cpp">https://github.com/win11905/submission/blob/master/USACO12nov-cbs-gold/USACO12nov-cbs-gold.cpp</a> ]	6.5		[4]	p4		10
<a href="#">CEOI 17-OneWay</a>	graph, scc, dsu, edges, [one can avoid LCA], [ <a href="https://codeforces.com/blog/entry/6813">https://codeforces.com/blog/entry/6813</a> ]	6.5	<a href="#">Sol</a>	[61]	p4	1	13
<a href="#">IOI 07-flood</a>	graph, bfs, 0-1 bfs, flood-fill or dfs, convex hull-like iterating	6.5	<a href="#">Sol</a>	[48]	p3 v2	3	11
<a href="#">OSN 16-1B</a>	ad-hoc, interactive	6.5	<a href="#">Sol</a>	[1]	p3	1	8
<a href="#">MCO 17-LargeCity</a>	ad-hoc, datastructures, observation	6.5	<a href="#">Editorial</a>	[1]	p3	1	7
<a href="#">IOI 00-median [23]</a>	ad-hoc, quick sort, randomization or datastructures, heap, impl	6.5	<a href="#">Sol</a>	[1]	p3		6
<a href="#">POI 05-Points [24]</a>	ad-hoc, geometry, center of gravity, cyclic shifts, [precision issues]	6.5	<a href="#">Sol</a>	[1]	p3	1	2
<a href="#">COCI 19-simfonija</a>	ad-hoc, <b>slope_trick</b> or others	6.5	<a href="#">Sol</a>	[1]	p3		2
<a href="#">COI 08-Otoci</a>	graph, hld, sqrt decomposition, [ <b>strict</b> TL on dmoj]	6.5	<a href="#">Sol</a>	[122]	p3	1	3
<a href="#">JOIOC 14-pinball</a>	segment tree, dp	6.5	<a href="#">Sol</a>	[13]	p3	1	11
<a href="#">POI 09-Ice_Skates</a>	segment tree, max subarray sum	6.5	<a href="#">Sol</a>	[13]	p3		10

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 15-Nekameleoni</a>	segment tree, d&c, bitmasks, optimization, [repeated]	6.5	<a href="#">Sol</a>	[13]	p3	1	6
<a href="#">Infoarena tricolor [25]</a>	dp, dp_trees, [skip unused states]	6.5	<a href="#">Sol</a>	[136]	p3		6
<a href="#">infoarena radare [26]</a>	dp, dp_trees. [dfs traversal for optimization]	6.5	<a href="#">Sol</a>	[136]	p3	1	5
<a href="#">Baltic 16-swap</a>	dp, binary tree, [restricted time and memory]	6.5	<a href="#">Sol</a>	[16]	p3	3	6
<a href="#">CEOI 09-Photo</a>	dp, rectangles, ad-hoc	6.5	<a href="#">Sol</a>	[16]	p3	1	6
<a href="#">COCI 08-Dostava</a>	dp or dijkstra, impl	6.5	<a href="#">Sol</a>	[16]	p3		5
<a href="#">POI 16-Messenger</a>	dp, [also <a href="https://www.youtube.com/watch?v=8CTteoBqW6A">https://www.youtube.com/watch?v=8CTteoBqW6A</a> ]	6.5	<a href="#">Sol</a>	[16]	p3		5
<a href="#">POI 13-Polarization</a>	dp, knapsack, trees, math, [educational]	6.5	<a href="#">Sol</a>	[16]	p3		3
<a href="#">USACO 12dec-gangs</a>	bf, greedy, [lexicographically smallest sequence] or dp	6.5	<a href="#">Sol</a>	[2]	p3		6
<a href="#">Baltic 08-Game</a>	dp, dp_games, dp_table, bfs, 2d grid	6.5	<a href="#">Sol</a>	[28]	p3		4
<a href="#">IOIPractice 16-balanced-string</a>	greedy, d&c, induction, [cases]	6.5	<a href="#">Sol</a>	[32]	p3	1	7
<a href="#">COCI 15-Endor</a>	greedy or dp	6.5	<a href="#">Sol</a>	[32]	p3		7
<a href="#">POI 04-Game</a>	game theory, nim, [staircase nim]	6.5	<a href="#">Sol</a>	[34]	p3		2
<a href="#">CEOI 05-Fence</a>	geometry, prefix sum, interactive	6.5	<a href="#">Sol</a>	[37]	p3	1	4
<a href="#">COCI 11-traka</a>	geometry, optimization, convex hull trick, [=SPOJ TRAKA]	6.5	<a href="#">Editorial</a>	[37]	p3		2
<a href="#">USACO 16dec-triangles-plat</a>	geometry	6.5		[37]	p3		2
<a href="#">COCI 06-Straza</a>	geometry, lines	6.5	<a href="#">Sol</a>	[39]	p3		2
<a href="#">USACO 18dec-balanceplat</a>	geometry, polygon, convex hull or math, convexity, datastructures	6.5	<a href="#">Sol</a>	[42]	p3		2
<a href="#">POI 04-Islands</a>	geometry, sweep line or segment tree, prefix sum	6.5	<a href="#">Sol</a>	[44]	p3	2	6
<a href="#">Baltic 12-Fire</a>	geometry, sweep line, math	6.5	<a href="#">Sol</a>	[44]	p3		3
<a href="#">Baltic 16-park</a>	graph, circles, dus or sp	6.5	<a href="#">Sol</a>	[46]	p3	3	10
<a href="#">infoarena maxdist [27]</a>	graph, tree, impl, [dynamic trick]	6.5	<a href="#">Sol</a>	[46]	p3		6
<a href="#">IOI 02-Bus [28]</a>	graph, ad-hoc, tree diameter, greedy	6.5	<a href="#">Sol</a>	[46]	p3	1	6
<a href="#">CCO 17-Connection</a>	graph, online bridges, binary search, parallel, [ <a href="https://cp-algorithms.com/graph/bridge">https://cp-algorithms.com/graph/bridge</a> ]	6.5	<a href="#">Sol</a>	[46]	p3		6
<a href="#">infoarena amici2 [29]</a>	graph, bfs, math, [strict tl]	6.5	<a href="#">Sol</a>	[48]	p3		6
<a href="#">CEOI 15-indcyc</a>	graph, dfs, constructive	6.5	<a href="#">Sol</a>	[50]	p3	1	7
<a href="#">Baltic 07-Fence</a>	graph, dijkstra grid compress, geometry scanline. [harder version fences]	6.5	<a href="#">Sol</a>	[52]	p3		3
<a href="#">CEOI 05-Depot</a>	graph, euler tour	6.5	<a href="#">Sol</a>	[54]	p3	1	9
<a href="#">COCI 08-Slice</a>	graph, max-flow	6.5	<a href="#">Sol</a>	[56]	p3		3
<a href="#">infoarena casute [30]</a>	graph, lca, DAG or bfs, bitset [educational - LCA on dag], [strict TL]	6.5	<a href="#">Sol</a>	[65]	p3		6
<a href="#">COCI 20-putovanje</a>	graph, lca, fenwick-tree, todo link	6.5	<a href="#">Sol</a>	[65]	p3		1
<a href="#">infoarena perioada</a>	math, number theory, hashing	6.5	<a href="#">Sol</a>	[68]	p3		2
<a href="#">USACO 18jan-sprinklers-plat</a>	math, combinatorics, two pointers, [complementary counting], [~=COCI 19-strah, repeated]	6.5	<a href="#">Sol</a>	[82]	p3	3	7
<a href="#">COI 09-Kolo</a>	math, sieve, mod, simulation	6.5	<a href="#">Sol</a>	[93]	p3		5
<a href="#">POI 08-Permutation</a>	math, mod inv, factorization, tree, impl	6.5	<a href="#">Sol</a>	[96]	p3		2
<a href="#">CEOI 15-teams</a>	dp, dp_counting, dp_table, dp_roll, cases, lexi	6.5	<a href="#">Sol</a>	[26]	p2 v2	3	21

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">infoarena paintball</a>	graph, dfs, bfs, observation	6.5	<a href="#">Sol</a>	[50]	p2 v2		5
<a href="#">IOI 17-prize</a>	ad-hoc, d&c, interactive, [solve APIO 16-gap first is helpful], [constant optimization], [f	6.5	<a href="#">Sol</a>	[1]	p2	3	11
<a href="#">COI 08-Plahte</a>	impl, [hard to impl], [easy idea]	6.5	<a href="#">Editorial</a>	[109]	p2		1
<a href="#">USACO 16feb-cbarn-plat</a>	dp, dp_d&c_opt, [get rid of dp cycle]	6.5	<a href="#">Sol</a>	[112]	p2		4
<a href="#">Baltic 07-Points</a>	dp, dp_profile, matrix, matrix pow	6.5	<a href="#">Sol</a>	[116]	p2	1	3
<a href="#">infoarena mindist</a>	sqrt decomposition, Manhattan2DRotation or segment tree	6.5	<a href="#">Sol</a>	[126]	p2		3
<a href="#">IOI 03-code</a>	string processing, hashing, binary search, <b>impl</b> , [easy idea]	6.5	<a href="#">Sol</a>	[137]	p2		2
<a href="#">IOI 07-pairs</a>	bit, 2d bit, Manhattan2DRotation, <b>impl</b>	6.5	<a href="#">Editorial</a>	[15]	p2	2	6
<a href="#">USACO 20dec-pieaters-plat</a>	dp, permutation, observation	6.5		[16]	p2		5
<a href="#">Baltic 12-Brackets</a>	dp, brackets, optimizations	6.5	<a href="#">Sol</a>	[16]	p2		3
<a href="#">USACO 19jan-tracking2_plat</a>	dp, combinatorics	6.5		[16]	p2		2
<a href="#">Infoarena culmi</a>	dp, bignum, impl or, math, closed form, [Narayana number]	6.5	<a href="#">Sol</a>	[16]	p2		1
<a href="#">JOI 19-Coin</a>	greedy, [JOI19_ho_t4]	6.5	<a href="#">Sol</a>	[32]	p2		4
<a href="#">Baltic 05-Polygon</a>	geometry, polygon, circle, binary search, constructive	6.5	<a href="#">Sol</a>	[40]	p2		3
<a href="#">USACO 18dec-gathering</a>	graph, euler tour or others	6.5		[54]	p2		4
<a href="#">USACO 19dec-plat-pieaters</a>	dp, dp_ranges	6.5	<a href="#">Sol</a>	[31]	p1 v2		4
<a href="#">COCI 07-Baza</a>	string processing, trie or search, datastructures, [optimizations], [easy idea]	6.5	<a href="#">Sol</a>	[101]	p1		2
<a href="#">IOI 12-rings</a>	graph, dsu, cycles, <b>impl</b>	6.5	<a href="#">Sol</a>	[53]	p1	2	7
<a href="#">IOI 10-languages</a>	ad-hoc, heuristics, tuning	6.5	<a href="#">Editorial</a>	[1]		1	4
<a href="#">Baltic 17-PlusMinus</a>	ad-hoc	6.5	<a href="#">hints</a>	[1]			3
<a href="#">JOIOC 19-Remittance</a>	ad-hoc, [hard to prove]	6.5	<a href="#">Sol</a>	[1]			3
<a href="#">CCO 18-WrongAnswer</a>	ad-hoc, constructive	6.5	<a href="#">Sol</a>	[1]			2
<a href="#">Baltic 18-Genetics</a>	ad-hoc, string, hashing	6.5	<a href="#">Editorial</a>	[1]		1	2
<a href="#">IOIQ 19-d2-D</a>	ad-hoc, math	6.5		[1]		1	2
<a href="#">COI 14-css</a>	ad-hoc, string parsing, [boring]	6.5		[1]			
<a href="#">COI 18-pick</a>	ad-hoc, cases, impl	6.5		[1]			
<a href="#">IZhO 19-lyuboy</a>	ad-hoc, bits ??	6.5		[1]			
<a href="#">COCI 20-klasika</a>	string processing, trie, [todo link]	6.5		[101]			1
<a href="#">Balkan 15-Clarkson</a>	string processing, suffix array, rmq, binary search	6.5	<a href="#">Sol (no edit</a>	[104]			
<a href="#">ROUSelection 18-count_bst</a>	bst, catlan, mod inv, formula	6.5		[108]			1
<a href="#">IOI 03-robots</a>	impl, dfs, parsing input	6.5	<a href="#">Sol</a>	[109]			2
<a href="#">Infoarena Calancea</a>	<del>two pointers, data structures, [Romanian txt], [IOIPractice 16-increasing_subarrays,</del>	6.5		[110]			<del>1</del>
<a href="#">CEOI 02-Bugs</a>	dp, dp_profile, impl	6.5	<a href="#">Sol</a>	[116]			2
<a href="#">APIO 19-street_lamps</a>	segment tree, impl	6.5	<a href="#">Sol</a>	[13]		1	3
<a href="#">COCI 15-relativnost</a>	segment tree, polynomial, [repeated]	6.5	<a href="#">Sol</a>	[13]		1	3
<a href="#">COCI 17-garaza</a>	segment tree, [hard state]	6.5	<a href="#">Editorial</a>	[13]			2

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">JOI 20-Fire</a>	bit, JOI20_ho_t5	6.5	<a href="#">Official Coc</a>	[15]			
<a href="#">JOI 16-GeologicFault</a>	bit, binary search or segment tree, [JAPANESE]	6.5		[15]			
<a href="#">Balkan 18-parentises</a>	dp	6.5	<a href="#">Editorial</a>	[16]			2
<a href="#">CEOI 16-popeala</a>	dp	6.5	<a href="#">Sol</a>	[16]		1	2
<a href="#">infoarena ksecv</a>	dp, [Romanian txt]	6.5	<a href="#">Sol</a>	[16]			1
<a href="#">NOI 11-tour</a>	dp, impl or bfs, pruning	6.5	<a href="#">Sol</a>	[16]			1
<a href="#">COCI 18-vrtic</a>	dp, impl	6.5		[16]			
<a href="#">CEOI 07-Airport</a>	todo	6.5		[222]			
<a href="#">CEOI 07-Treasury</a>	todo, [https://dunjjudge.me/analysis/problems/756/]	6.5		[222]			
<a href="#">CEOI 10-Alliances</a>	todo, [https://dunjjudge.me/analysis/problems/750/]	6.5		[222]			
<a href="#">CEOI 10-MP3player</a>	todo	6.5		[222]			
<a href="#">POI 13-mul</a>	todo, long impl, dfs	6.5		[222]			
<a href="#">ROUSlection 18-towns</a>	todo, hmm	6.5		[222]			
<a href="#">APIO 15-sculpture</a>	greedy, dp, [=CF981-D12-D]	6.5	<a href="#">Sol</a>	[32]			8
<a href="#">CEOI 13-board</a>	greedy, bitset, datastructures, impl, [boring?]	6.5	<a href="#">Sol</a>	[32]			5
<a href="#">IOI 08-teleporters</a>	greedy, observation, graph, prove	6.5	<a href="#">Editorial</a>	[32]		1	5
<a href="#">POI 16-Necklace</a>	greedy, pruning, long code or dp, short code	6.5	<a href="#">Sol</a>	[32]		1	2
<a href="#">ROJS 17-palindromic_tree</a>	greedy, pattern, palindromes	6.5		[32]			1
<a href="#">CEOI 14-007</a>	game theory, bfs, dp, [cases, editorial]	6.5	<a href="#">Sol</a>	[33]			2
<a href="#">USACO 15jan-gold_cowrect</a>	geometry, line sweep	6.5		[37]			1
<a href="#">POI 05-Manoeuvres</a>	geometry	6.5	<a href="#">Editorial</a>	[37]			
<a href="#">IOI 15-horses</a>	datastructures or segment_tree, bst, [logarithms]	6.5	<a href="#">Editorial</a>	[4]		2	10
<a href="#">CEOI 13-tram</a>	datastructures, greedy	6.5	<a href="#">Sol</a>	[4]			2
<a href="#">infoarena cover</a>	datastructures, min deque	6.5	<a href="#">Sol</a>	[4]			2
<a href="#">USACO 17feb-friendcross</a>	datastructures	6.5		[4]			2
<a href="#">COI 14-kosta</a>	datastructures, long impl, [boring]	6.5	<a href="#">Editorial</a>	[4]			1
<a href="#">COCI 16-meksikanac</a>	geometry, polygon, fft	6.5	<a href="#">Editorial</a>	[40]		1	1
<a href="#">COI 16-relay</a>	geometry, polygon, tangents, cases, [boring]	6.5	<a href="#">Sol</a>	[40]			1
<a href="#">Balkan 16-Cruise</a>	geometry, polygon, convex hull, bit, binary search ?	6.5	<a href="#">Sol (no edit</a>	[42]			
<a href="#">COI 15-sir</a>	geometry, polygon, convex hull	6.5	<a href="#">Editorial</a>	[42]			
<a href="#">EJOI 17-particles</a>	geometry, polygon, convex hull	6.5		[42]			
<a href="#">JOIOC 17-amusementPark</a>	graph, [DOWNLOAD cases], [communication style]	6.5	<a href="#">Sol</a>	[46]		1	4
<a href="#">POI 13-Tower_Defense_Game</a>	graph	6.5	<a href="#">Editorial</a>	[46]			1
<a href="#">JOI 20-OlympicBus</a>	graph, dijkstra, todo, JOI20_ho_t4	6.5	<a href="#">Official Coc</a>	[52]		1	1
<a href="#">JOI 14-SugarGlider</a>	graph, dijkstra?, [JAPANESE], [long txt - don't assign - Riya don't understand]	6.5		[52]			
<a href="#">USACO 20jan-cave-plat</a>	graph, dsu	6.5		[53]			1



Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">JOISC 13-Jamming</a>	graph, dsu, <b>[JAPANESE]</b>	6.5		[53]			
<a href="#">POI 11-Garbage</a>	graph, euler tour, optimization, [POI11_smi]	6.5	<a href="#">Sol</a>	[54]			1
<a href="#">APIO 09-ATM</a>	graph, scc, dp_sibling, [https://www.acmicpc.net/category/detail/223]	6.5	<a href="#">Sol</a>	[61]		1	4
<a href="#">COCI 07-Staza</a>	graph, scc, biconnected components, d&c, bf	6.5	<a href="#">Sol</a>	[64]		1	2
<a href="#">USACO 17dec-pushabox-plat</a>	graph, scc, biconnected components, impl, [direct]	6.5		[64]			2
<a href="#">infoarena hacker2 [31]</a>	graph, lcal, binary lifting, dfs, trees, impl	6.5	<a href="#">Sol</a>	[65]		1	2
<a href="#">JOIOC 14-fortune_telling2</a>	binary search, parallel binary search, segment tree	6.5		[9]			6
<a href="#">Balkan 11-Trapezoid</a>	segment tree, persistent, dp, sweep	6.4	<a href="#">Sol</a>	[13]	p4	2	18
<a href="#">infoarena aiacubiti [32]</a>	dp, meet in middle, bitmasks	6.4	<a href="#">Sol</a>	[16]	p4		7
<a href="#">COCI 15-galaksija</a>	graph, dsu, math, xor, [small-to-large] or centroid-decomposition	6.4	<a href="#">Sol</a>	[53]	p4		9
<a href="#">NOI 14-cats</a>	math, formula or <b>pattern</b> , constructive	6.4	<a href="#">Sol</a>	[72]	p4	4	8
<a href="#">IOIPractice 16-increasing_subarrays</a>	two pointers, deque, ad-hoc, [=infoarena calancea]	6.4	<a href="#">Sol</a>	[110]	p3 v2	1	8
<a href="#">Infoarena Desc [33]</a>	dp, math, divisors, [weak cases?]	6.4	<a href="#">Sol</a>	[16]	p3 v2		7
<a href="#">Baltic 09-Subway [34]</a>	greedy, binary search, math	6.4	<a href="#">Sol</a>	[32]	p3 v2	1	6
<a href="#">JOISC 19-Naan</a>	greedy, math	6.4	<a href="#">Sol</a>	[32]	p3 v2		6
<a href="#">CEOI 02-Fence</a>	dp, dp_knuth, dp_counting, impl, permutation, [similar: AtCoder-dp_t https://atcoder.	6.4	<a href="#">Sol</a>	[128]	p3		7
<a href="#">JOI 19-GrowingVegetable</a>	dp, dp_counting, [JOI19_ho_t3], [dp table creation during run time], [mix of old tricks]	6.4	<a href="#">Sol</a>	[26]	p3		14
<a href="#">PO Kattis</a>	geometry, convex hull, stack, greedy	6.4	<a href="#">Sol</a>	[37]	p3		1
<a href="#">POI 18-Plan_Metra</a>	graph, trees, constructive	6.4	<a href="#">Sol</a>	[46]	p3		9
<a href="#">USACO 18mar-disrupt-plat</a>	graph, dfs, [small-to-large] or hld or rmq	6.4	<a href="#">Sol</a>	[50]	p3		9
<a href="#">JOI 18-commuterpas</a>	graph, dijkstra, dp	6.4	<a href="#">Sol</a>	[52]	p3		11
<a href="#">POI 16-Streets</a>	graph, scc, topological sort, impl	6.4	<a href="#">Sol</a>	[61]	p3	1	7
<a href="#">IOI 09-regions</a>	sqrt decomposition, prefix sum or euler tour, two pointers, [easy if saw idea before]	6.4	<a href="#">Sol</a>	[126]	p2		6
<a href="#">CEOI 02-Guards</a>	graph, max-flow, bipartite match	6.4	<a href="#">Sol</a>	[58]	p2		7
<a href="#">CEOIPractice 17-Museum</a>	dp, dp_trees or dp_sibling (slow), [easier limits IOI 05-rivers]	6.3	<a href="#">Sol</a>	[136]	p4 v2		9
<a href="#">JOI 18-Dangomaker</a>	dp, [dp on diagonal, non-standard]	6.3	<a href="#">Sol</a>	[16]	p4 v2	2	21
<a href="#">COCI 19-transport</a>	graph, centroid-decomposition, bit	6.3	<a href="#">Sol</a>	[123]	p4	1	6
<a href="#">POI 11-Lollipop</a>	greedy, POI11_liz	6.3	<a href="#">Sol</a>	[32]	p4		3
<a href="#">COCI 18-planinarenje</a>	graph, max-flow, bipartite match	6.3	<a href="#">Editorial</a>	[58]	p4		5
<a href="#">COI 07-Kolekcija</a>	dp, dp_build_output, greedy, two pointers. impl	6.3	<a href="#">Sol</a>	[111]	p3 v2		8
<a href="#">APIO 07-Zoo</a>	dp, dp_bitmasks, sliding window, [max-sat]	6.3	<a href="#">Sol</a>	[24]	p3 v2	1	6
<a href="#">POI 14-Panels</a>	math, number theory, sqrt or sqrt decomposition	6.3	<a href="#">Sol</a>	[68]	p3 v2		8
<a href="#">DMOPC 18-BobEnglishClass</a>	graph, centroid-decomposition, greedy, dfs, [=CF752-D12-F]	6.3	<a href="#">Sol</a>	[123]	p3		5
<a href="#">COI 14-krave</a>	segment tree, tournament tree	6.3	<a href="#">Sol</a>	[13]	p3	1	6
<a href="#">CEOI 14-cake</a>	segment tree, ad-hoc, <b>nice to impl</b>	6.3	<a href="#">Sol</a>	[13]	p3		6
<a href="#">COCI 07-Cestarine</a>	dp, greedy, all permutations	6.3	<a href="#">Sol</a>	[16]	p3		9

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">POI 12-Squarks</a>	greedy, brute force, math	6.3	<a href="#">Sol</a>	[32]	p3		6
<a href="#">POI 14-Little_Bird</a>	greedy, monotonic queue, simulation	6.3	<a href="#">Sol</a>	[32]	p3		5
<a href="#">Baltic 15-hac</a>	game theory, stl or segment tree, sliding window. [monotone queue]	6.3	<a href="#">Sol</a>	[33]	p3		7
<a href="#">COCI 16-mag</a>	graph, ad-hoc, dp_trees	6.3	<a href="#">Sol</a>	[46]	p3		7
<a href="#">POI 04-East_West</a>	graph, impl, [MLE, memory optimizations]	6.3	<a href="#">Sol</a>	[46]	p3	1	5
<a href="#">IOI 11-garden</a>	graph, dfs, cycles, <b>impl</b> , [functional graph]	6.3	<a href="#">Sol</a>	[50]	p3	2	15
<a href="#">COCI 17-ceste</a>	graph, dijkstra, optimization, [multi-criteria]	6.3	<a href="#">Sol</a>	[52]	p3		7
<a href="#">Baltic 12-Peaks</a>	graph, dsu, flood-fill, hard impl	6.3	<a href="#">Sol</a>	[53]	p3		8
<a href="#">Baltic 19-valley</a>	graph, lca, dfs	6.3	<a href="#">Sol</a>	[65]	p3		11
<a href="#">Balkan 11-decrypt</a>	math, xor, periods, random numbers, interactive	6.3	<a href="#">Sol</a>	[68]	p3	1	6
<a href="#">COCI 08-Trezor [35]</a>	math, inclusion-exclusion, gcd, primes	6.3	<a href="#">Sol</a>	[86]	p3	1	5
<a href="#">infoarena password2 [36]</a>	binary search, interactive, [easier version infoarena interact]	6.3	<a href="#">Sol</a>	[9]	p3		7
<a href="#">COI 16-torrent</a>	binary search, dfs	6.3	<a href="#">Sol</a>	[9]	p3		6
<a href="#">COI 14-mostovi</a>	graph, stl, [tricky to short impl], [easy idea]	6.3	<a href="#">Editorial</a>	[46]	p2		1
<a href="#">ROJS 17-borland</a>	ad-hoc, d&c, two pointers, modular inverse, [using less than O(n) memory]	6.3	<a href="#">sol</a>	[1]			5
<a href="#">CEOI 02-Dwarfs</a>	geometry, angles, convex hull, [slow input on https://www.acmicpc.net/problem/7057]	6.3	<a href="#">Editorial</a>	[37]			1
<a href="#">infoarena curent</a>	graph, trees, data structures, [Romanian txt]	6.3	<a href="#">Sol</a>	[46]			2
<a href="#">POI 05-Banknote</a>	dp, [bounded knapsack] or ad-hoc, stl or dp_convex_hull, deque	6.25	<a href="#">Sol</a>	[16]	p5		8
<a href="#">TOKIOpen 18-GroupChat</a>	binary search, greedy, [Manhattan distance to Chebysehv distance trick - Manhattan2]	6.25	<a href="#">Sol</a>	[9]	p5	2	15
<a href="#">POI10 sums</a>	graph, dijkstra, summations, diphontine or math, [POI 03-sums, dijkstra on modulo g]	6.25	<a href="#">Sol</a>	[52]	p4 v3	2	30
<a href="#">CEOI 13-treasure2</a>	dp, dp_counting, prefix sum or d&c, inclusion-exclusion, [interactive]	6.25	<a href="#">Sol</a>	[26]	p4 v2	1	19
<a href="#">IOI 14-friend</a>	graph, greedy or dp, inductive graph transformation	6.25	<a href="#">Sol</a>	[46]	p4 v2	3	18
<a href="#">USACO 15feb-gold_censor</a>	ad-hoc, hashing, integer partitions	6.25		[1]	p4		4
<a href="#">USACO 17dec-standingout-plat</a>	string processing, suffix array	6.25		[104]	p4		5
<a href="#">POI 11-Conductor</a>	dp, dp_convex_hull or dp_d&c or segment tree or ad-hoc, [POI11_pio]	6.25	<a href="#">Sol</a>	[124]	p4		10
<a href="#">infoarena arb3</a>	dp, dp_trees, binary search	6.25	<a href="#">Sol</a>	[136]	p4		6
<a href="#">IZhO 14-blocks</a>	dp, optimal splitting, minque or monotonic stack	6.25	<a href="#">Sol</a>	[16]	p4	1	13
<a href="#">Balkan 09-Reading</a>	dp, matrix pow	6.25	<a href="#">Sol</a>	[16]	p4	1	3
<a href="#">IOI 04-polygon</a>	geometry, polygon, Minkowski sum	6.25	<a href="#">Sol</a>	[40]	p4		1
<a href="#">CEOI 17-Chase</a>	dp, dp_trees	6.25	<a href="#">Sol</a>	[136]	p3 v2	1	13
<a href="#">IOI 05-birthday</a>	binary search or ad-hoc, permutations, [seems very close to IOI 02-Utopia]	6.25	<a href="#">Sol</a>	[9]	p3 v2	1	10
<a href="#">CEOI 10-Tower</a>	ad-hoc	6.25	<a href="#">Sol</a>	[1]	p3		4
<a href="#">COCI 17-rima</a>	string processing, trie, dp	6.25	<a href="#">Editorial</a>	[101]	p3		6
<a href="#">USACO 19feb-plat_moorikart</a>	sqrt decomposition, dp or dp	6.25	<a href="#">Sol</a>	[126]	p3	1	5
<a href="#">CCO 18-boring</a>	sqrt decomposition	6.25	<a href="#">Sol</a>	[126]	p3	1	3
<a href="#">IOIPractice 14-guardians-lunatics-ioi14</a>	dp, dp_knuth or dp_d&c_opt	6.25	<a href="#">Sol - must</a>	[128]	p3		8

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">IZhO 12-biochips</a>	dp, dp_trees, euler tour, [amortizd analysis]	6.25	<a href="#">Sol</a>	[136]	p3	1	14
<a href="#">COCI 18-dostavljac</a>	dp, dp_trees	6.25	<a href="#">Sol</a>	[136]	p3	1	7
<a href="#">USACO 15feb-gold_hopscotch</a>	bit, dp	6.25		[15]	p3		6
<a href="#">USACO 16feb-balancing-plat</a>	bit, binary search or segment tree	6.25		[15]	p3		2
<a href="#">OI 18-cena</a>	dp, datastructures or greedy, combinatorics	6.25	<a href="#">Sol</a>	[16]	p3	1	9
<a href="#">Baltic 12-Melody</a>	dp, bfs ,constructive, optimize	6.25	<a href="#">Sol</a>	[16]	p3		8
<a href="#">Baltic 13-brunhilda</a>	dp, greedy, primes, monotonicity, [mathy proof]	6.25	<a href="#">Sol</a>	[16]	p3	1	6
<a href="#">USACO 18jan-lifeguards-plat</a>	dp, deque, [easy impl]	6.25	<a href="#">Sol</a>	[16]	p3		6
<a href="#">CEOI 19-cubeword</a>	dp, math, meet in middle	6.25	<a href="#">Editorial</a>	[16]	p3	1	4
<a href="#">infoarena sormin [37]</a>	dp, binary search or ad-hoc, bitmasks, knapsack	6.25	<a href="#">Sol</a>	[16]	p3		4
<a href="#">POI 10-Sheep</a>	dp, geometry, triangulation, [solve first POI 06-Invasion]	6.25	<a href="#">Sol</a>	[16]	p3		3
<a href="#">IOIPractice 16-polygon_partition</a>	dp, polygon, mod inv	6.25	<a href="#">Sol</a>	[16]	p3		3
<a href="#">CEOI 05-Ticket</a>	greedy, [https://dunjudge.me/analysis/problems/555/]	6.25	<a href="#">Sol</a>	[32]	p3	1	5
<a href="#">Baltic 08-Gloves</a>	geometry, bitmasks or convex hull-like, sets	6.25	<a href="#">Sol</a>	[37]	p3		5
<a href="#">CEOI 18-Lottery</a>	datastructures, impl, [tight memory]	6.25	<a href="#">Sol</a>	[4]	p3		11
<a href="#">COCI 19-strah</a>	datastructures, stack, d&c, prefix, [COCI18_strah]	6.25	<a href="#">Sol</a>	[4]	p3	1	6
<a href="#">JOISC 19-Mergers</a>	graph, greedy or dsu-on-trees or lca, [think in proof]	6.25	<a href="#">Sol</a>	[46]	p3		8
<a href="#">CEOI 16-router</a>	graph, math, constructive, [output-only]	6.25	<a href="#">Sol</a>	[46]	p3		3
<a href="#">COI 17-ili</a>	graph, ad-hoc, floodfill, circuits, impl, [easy idea]	6.25	<a href="#">Sol</a>	[46]	p3		2
<a href="#">USACO 16feb-fencedin-plat</a>	graph, mst, ad-hoc	6.25		[60]	p3		1
<a href="#">Balkan 12-Fan_Groups</a>	graph, scc, topological sort	6.25	<a href="#">Sol</a>	[61]	p3	1	6
<a href="#">APIO 19-strange_device</a>	math, sorting, mod, gcd	6.25	<a href="#">Sol</a>	[68]	p3		5
<a href="#">infoarena permsort2 [38]</a>	math, cyclic permutation, bit, patterns	6.25	<a href="#">Sol</a>	[84]	p3		7
<a href="#">IOI 11-crocodile</a>	graph, dijkstra	6.25	<a href="#">Editorial</a>	[52]	p2 v2		9
<a href="#">APIO 09-Oil</a>	ad-hoc, d&c, 2d prefix sums, 2d sliding window, impl [https://www.acmicpc.net/catego	6.25	<a href="#">Sol</a>	[1]	p2	1	12
<a href="#">Baltic 19-olympiads</a>	ad-hoc, fracturing search	6.25	<a href="#">Sol</a>	[1]	p2		3
<a href="#">USACO 18feb-newbarn-plat</a>	graph, centroid-decomposition or lca, tree diameter, [almost direct]	6.25		[123]	p2		7
<a href="#">COI 19-ijetopica</a>	dp, [close to USACO 14open-silver-odometer]	6.25	<a href="#">Sol</a>	[16]	p2		2
<a href="#">Baltic 10-Lego</a>	dp, backtrack, impl	6.25	<a href="#">Editorial</a>	[16]	p2	1	2
<a href="#">IOI 09-hiring</a>	greedy	6.25	<a href="#">Editorial</a>	[32]	p2		4
<a href="#">COCI 07-Pravokutni</a>	geometry, ordered_set	6.25	<a href="#">Sol</a>	[37]	p2		2
<a href="#">COCI 14-Kamp</a>	graph, cc, dfs, dp, impl	6.25	<a href="#">Sol</a>	[46]	p2		1
<a href="#">IOI 08-islands</a>	graph, dfs, cycles, ad-hoc, [MLEs]	6.25	<a href="#">Editorial</a>	[50]	p2	2	8
<a href="#">IOI 14-game</a>	graph, dsu, birdges, constructive, greedy	6.25	<a href="#">Sol</a>	[53]	p2		20
<a href="#">Baltic 14-postmen</a>	graph, euler tour, [basic, just strict TL]	6.25	<a href="#">Sol</a>	[54]	p2		2
<a href="#">CEOI 04-Football [39]</a>	math, ad-hoc, round-robin	6.25	<a href="#">Sol</a>	[68]	p2	2	3

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">CEOI 06-Meandian</a>	ad-hoc	6.25	<a href="#">Sol</a>	[1]		1	2
<a href="#">JOISC 13-Messenger</a>	ad-hoc, games, interactive?, [JAPANESE]	6.25		[1]			
<a href="#">COCI 18-clickbait</a>	impl, graph, constructive	6.25		[109]			2
<a href="#">COI 17-zagrade</a>	graph, centroid-decomposition or subtree set merging	6.25	<a href="#">Sol</a>	[123]			4
<a href="#">APIO 14-Sequence</a>	dp, dp_convex_hull or dp_d&c_opt, [strict time, easy for one knows these techniques]	6.25	<a href="#">Sol</a>	[124]		1	13
<a href="#">APIO 10-Commando</a>	dp, dp_convex_hull, math, [type 1, =SPOJ APIO10A, ~=kattis coveredwalkway]	6.25	<a href="#">Sol</a>	[124]			9
<a href="#">Baltic 17-Toll</a>	segment tree, matrix pow, [~=POI fib]	6.25	<a href="#">Sol</a>	[13]			3
<a href="#">COCI 17-plahte</a>	segment tree, sweep line	6.25	<a href="#">Editorial</a>	[13]			2
<a href="#">POI 15-Movie</a>	segment tree	6.25	<a href="#">Editorial</a>	[13]			1
<a href="#">CEOI 09-Harbingers</a>	segment tree, LiChao or datastructures, binary search, geometry	6.25	<a href="#">Editorial</a>	[13]			1
<a href="#">COI 15-dostava</a>	<del>segment tree, sweep line, [no submit], [test data: last entry here http://hsin.hr/2015/]</del>	<del>6.25</del>	<a href="#">Editorial</a>	[13]			<del>1</del>
<a href="#">POI 18-Polynomial</a>	math, fft	6.25	<a href="#">Sol</a>	[138]			1
<a href="#">POI 15-Squares</a>	dp, [bf to get observations and pattern]	6.25	<a href="#">Sol</a>	[16]		2	3
<a href="#">IOI 06-mexico</a>	dp, [https://www.iarcs.org.in/inoi/online-study-material/problems/mexico-soln.php]	6.25	<a href="#">Editorial</a>	[16]		1	2
<a href="#">infoarena aiacupalindroame</a>	dp, dfs, hash, [Romanian txt]	6.25	<a href="#">Sol</a>	[16]			1
<a href="#">IOI 01-ioiwari</a>	dp, game or game theory, ad-hoc, greedy	6.25	<a href="#">Editorial</a>	[16]			1
<a href="#">POI 13-Taxis</a>	todo, [POI13_tak]	6.25		[222]			1
<a href="#">CEOI 07-Ministry</a>	todo	6.25		[222]			
<a href="#">JOISC 14-Voltage</a>	todo, [JAPANESE]	6.25		[222]			
<a href="#">JOISC 16-Sandwich</a>	todo, [JAPANESE]	6.25		[222]			
<a href="#">JOISC 16-Skating</a>	todo, [JAPANESE]	6.25		[222]			
<a href="#">JOISC 16-Solitaire</a>	todo, [JAPANESE]	6.25		[222]			
<a href="#">JOISC 16-Sushi</a>	todo, [JAPANESE]	6.25		[222]			
<a href="#">JOISC 16-Toilets</a>	todo, [JAPANESE]	6.25		[222]			
<a href="#">POI 16-Stutter</a>	dp, dp_table, LCS-like, some memory optimizations	6.25	<a href="#">Sol</a>	[23]			1
<a href="#">JOISC 17-long_mansion</a>	greedy, [See JOISC-17-abduction2.txt]	6.25	<a href="#">Sol</a>	[32]		1	3
<a href="#">COCI 09-Pasijans</a>	greedy, datastructures, hashing, [standard]	6.25	<a href="#">Editorial</a>	[32]			1
<a href="#">NOI 15-banana_farm</a>	datastructures, [~=SPOJ MKTHNUM]	6.25	<a href="#">Editorial</a>	[4]			1
<a href="#">JOISC 13-Construct</a>	graph, dsu, impl, hmm, [JAPANESE]	6.25		[53]			
<a href="#">infoarena jap2</a>	math combinatorics, [Romanian txt], [easy idea]	6.25	<a href="#">Sol</a>	[68]			1
<a href="#">infoarena meneaito</a>	math, implementation, [Romanian txt]	6.25	<a href="#">Sol</a>	[68]			1
<a href="#">RusOI-reg 16-sequence</a>	math, formula, binary search, convex function	6.25		[72]			1
<a href="#">IZhO 13-school</a>	greedy, datastructures, [hard to prove]	6.1	<a href="#">Sol</a>	[32]	p4		8
<a href="#">IOIPractice 17-coins</a>	math, xor, interactive, [communication style]	6.1	<a href="#">Sol</a>	[68]	p4		8
<a href="#">APIO 15-skyscraper</a>	graph, dijkstra, [some tricks]	6.1	<a href="#">Sol</a>	[52]	p3 v2	1	16
<a href="#">Baltic 19-nautilus</a>	ad-hoc, bitsets or dp, [educational]	6.1	<a href="#">Sol</a>	[1]	p3		9

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">USACO 19mar-balancing-gold</a>	ad-hoc, observation	6.1		[1]	p3	1	6
<a href="#">IOI 02-Batch</a>	dp or dp_convex_hull	6.1	<a href="#">Sol</a>	[16]	p3		4
<a href="#">COCI 09-Xor</a>	geometry, inclusion-exclusion	6.1	<a href="#">Sol</a>	[37]	p3		2
<a href="#">IZHO 18-plan</a>	graph, lca, mst or parallel binary search or dijkstra, mst	6.1		[65]	p3		8
<a href="#">POI 14-Criminals</a>	geometry, sweep line	6.1	<a href="#">Sol</a>	[44]	p1		2
<a href="#">infoarena arb</a>	segment tree, trees	6.1		[13]			2
<a href="#">UTSOpen 15-Pogo</a>	dp, dp_couning	6.1		[16]			3
<a href="#">POI 15-Gluttons</a>	dp, dp_bitmasks, [others faced MLE?]	6.1	<a href="#">Sol</a>	[24]		2	4
<a href="#">IZhO 14-shymbulak</a>	graph, cycles, datastructures, smart impl	6.1	<a href="#">Sol</a>	[46]		1	7
<a href="#">infoarena overpower</a>	math, number theory	6.1	<a href="#">Sol</a>	[68]			1
<a href="#">IOI 13-robots</a>	datastructures, binary search, greedy	6	<a href="#">Sol</a>	[4]	p5 v1		17
<a href="#">RMI 17-D1-Hangman 2</a>	string processing, rolling hash, bf, [strict tl]	6	<a href="#">Sol</a>	[105]	p4		7
<a href="#">COCI 09-snowwhite</a>	mo's algorithm, segment tree, Boyer-Moore majority vote	6	<a href="#">Sol</a>	[107]	p4	1	9
<a href="#">Baltic 13-pipes</a>	graph, dfs, topological sort, math	6	<a href="#">Sol</a>	[119]	p4	3	19
<a href="#">COCI 15-vudu</a>	bit, grid compress or segment tree	6	<a href="#">Sol</a>	[15]	p4		9
<a href="#">COCI 16-vjesta</a>	dp, dp_bitmasks, mask-all-subsets, [split to 2 masks and process independently]	6	<a href="#">Sol</a>	[24]	p4	1	13
<a href="#">USACO 17jan-tallbarn-plat</a>	greedy, binary search, quadratic equation ,titu's lemma	6	<a href="#">Sol</a>	[32]	p4	1	14
<a href="#">CEOI 08-Knights</a>	game theory, pattern	6	<a href="#">Sol</a>	[33]	p4	1	6
<a href="#">JOISC 15-inheritance</a>	graph, dsu, greedy	6	<a href="#">Sol</a>	[53]	p4		7
<a href="#">COCI 18-pictionary</a>	graph, mst, or lca	6	<a href="#">Sol</a>	[60]	p4		10
<a href="#">IZhO 18-treearray</a>	graph, lca, observations, sets	6	<a href="#">Sol</a>	[65]	p4		11
<a href="#">Baltic 09-Beetles</a>	dp, dp_ranges, dp_table, dp_roll	6	<a href="#">Sol</a>	[31]	p3 v2		14
<a href="#">POI 07-Pipelines</a>	greedy, sorting, sweep, observation, grid	6	<a href="#">Sol</a>	[32]	p3 v2		6
<a href="#">POI 07-Tetris</a>	greedy, stack	6	<a href="#">Sol</a>	[32]	p3 v2		5
<a href="#">Baltic 17-Railway</a>	graph, trees, prefix sums or dsu-on-trees, [merge trees]	6	<a href="#">Sol</a>	[46]	p3 v2	1	13
<a href="#">POI 06-Invasion</a>	ad-hoc, binary search, geometry, polygon, triangles	6	<a href="#">Sol</a>	[1]	p3		4
<a href="#">MCO 17-NewbieHacker</a>	string processing, kmp, z-algo, bit or rmq, [easy idea]	6	<a href="#">Sol</a>	[102]	p3	1	4
<a href="#">COCI 13-parovi</a>	dp, dp_digit or math, prefix	6	<a href="#">Sol</a>	[114]	p3	1	6
<a href="#">JOIOC 14-factories</a>	graph, centroid-decomposition, lca, [micro optimizations], [easy idea]	6	<a href="#">Sol</a>	[123]	p3		7
<a href="#">MCO 16-acorn</a>	dp, dp_convex_hull or ad-hoc, binary search, [!dp]	6	<a href="#">Sol</a>	[124]	p3		4
<a href="#">JOIOC 18-bubblesort2</a>	segment tree or treap, observation, greedy, <b>impl</b> , [easy idea]	6	<a href="#">Sol</a>	[13]	p3	3	9
<a href="#">IOI 05-mountains</a>	segment tree, implicit, offline processing, [constant optimizations]	6	<a href="#">Sol</a>	[13]	p3		8
<a href="#">infoarena fibo4 [40]</a>	segment tree, math or math, fibonacci perid	6	<a href="#">Sol</a>	[13]	p3		5
<a href="#">infoarena plimbare3 [41]</a>	dp, dp_trees, [strict tl, mem], [easy idea]	6	<a href="#">Sol</a>	[136]	p3		5
<a href="#">COCI 08-Najkraci</a>	dp, dp_trees, mst or dijkstra	6	<a href="#">Sol</a>	[136]	p3		4
<a href="#">infoarena sabin [42]</a>	string processing, map or trie	6	<a href="#">Sol</a>	[137]	p3		9

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">USACO 17feb-friendcross-plat</a>	bit, 3d	6	<a href="#">Sol</a>	[15]	p3		4
<a href="#">infoarena pitici3 [43]</a>	dp, sorting, exchange argument	6	<a href="#">Sol</a>	[16]	p3		6
<a href="#">Baltic 05-Bus_Trip [44]</a>	dp, graph, datastructures, impl or greedy, [easy idea]	6	<a href="#">Sol</a>	[16]	p3	1	5
<a href="#">infoarena lcdr</a>	dp, datastructures, impl. [strict tl]	6	<a href="#">Sol</a>	[16]	p3		5
<a href="#">USACO 20jan-threesum-gold</a>	dp	6		[16]	p3		3
<a href="#">COI 19-ljepotica</a>	dp [put link when available]	6	<a href="#">Sol</a>	[16]	p3		1
<a href="#">CEOI 18-Cloud</a>	dp, dp_table, knapsack	6	<a href="#">Sol</a>	[23]	p3		8
<a href="#">IOI 17-mountains</a>	dp, dp_ranges, cross product	6	<a href="#">Sol</a>	[31]	p3	2	7
<a href="#">COCI 09-Ograda</a>	greedy, constructive, stl, careful impl or monotonic queue	6	<a href="#">Sol</a>	[32]	p3	1	8
<a href="#">infoarena kdtree</a>	greedy, trees	6	<a href="#">Sol</a>	[32]	p3	1	3
<a href="#">IOI 06-pyramid</a>	datastructures, monotonic queue	6	<a href="#">Sol</a>	[4]	p3	1	8
<a href="#">CEOI 09-Logs</a>	datastructures, sorting	6	<a href="#">Sol</a>	[4]	p3		6
<a href="#">infoarena eq</a>	datastructures, greedy, d&c, impl	6	<a href="#">Sol</a>	[4]	p3		5
<a href="#">APIO 12-Dispatching</a>	graph, trees, datastructures, dsu-on-trees, [https://tioj.ck.tp.edu.tw/problems/1429]	6	<a href="#">Sol</a>	[46]	p3		13
<a href="#">Baltic 11-Vikings</a>	graph, bfs, [easy impl - big order]	6	<a href="#">Sol</a>	[48]	p3		4
<a href="#">POI 07-Tourist</a>	graph, dijkstra, dp, <b>tricky impl</b> , [easy idea]	6	<a href="#">Sol</a>	[52]	p3	1	4
<a href="#">infoarena mexc</a>	graph, dsu, matrix	6	<a href="#">Sol</a>	[53]	p3		3
<a href="#">infoarena karb [45]</a>	graph, mst, constructive, [matroid]	6	<a href="#">Sol</a>	[60]	p3		7
<a href="#">CEOI 11-Traffic [46]</a>	graph, scc, planer graph, impl [english txt http://ceoi.inf.elte.hu/probarch/11/trazad.pdf]	6	<a href="#">Sol</a>	[61]	p3		5
<a href="#">TOKIOpen 18-TileCovering</a>	graph, lca, binary lifting, impl	6	<a href="#">Sol</a>	[65]	p3	2	9
<a href="#">USACO 19feb-plat_cowdate</a>	math, two pointers	6		[68]	p3		5
<a href="#">POI 07-Weights</a>	math, log, prop	6	<a href="#">sol</a>	[68]	p3		1
<a href="#">NOI 17-rmq</a>	greedy, sweep	6	<a href="#">Sol</a>	[32]	p2 v2	1	6
<a href="#">POI 14-FarmCraft</a>	graph, greedy, exchange arguments or dp_trees	6	<a href="#">Sol</a>	[46]	p2 v2		8
<a href="#">CEOI 08-Dominance</a>	ad-hoc, Manhattan2DRotation, sliding window, <b>impl</b> or sweep, [easy idea]	6	<a href="#">Sol</a>	[1]	p2	1	5
<a href="#">OSN 15-1C</a>	ad-hoc, d&c, interactive	6	<a href="#">Sol</a>	[1]	p2		2
<a href="#">IOI 11-race</a>	graph, dsu-on-trees or centroid-decomposition, [standard], [http://www.ioi2011.or.th/h...	6	<a href="#">Sol</a>	[125]	p2		15
<a href="#">infoarena arbore [47]</a>	sqrt decomposition, trees, bitmasks	6	<a href="#">Sol</a>	[126]	p2		2
<a href="#">CEOI 18-Global</a>	segment tree, grid compress or bit, dp or dp, impl [lis prefix and postfix], [https://oj.uz/...	6	<a href="#">Sol</a>	[13]	p2		12
<a href="#">ROJS 17-cntgigimat</a>	segment tree or bit or datastructures, [strict time/memory]	6	<a href="#">Sol</a>	[13]	p2		3
<a href="#">COCI 06-lspiti</a>	segment tree, grid compress	6	<a href="#">Sol</a>	[13]	p2		2
<a href="#">infoarena minuni</a>	segment tree	6	<a href="#">Sol</a>	[13]	p2		1
<a href="#">Balkan 17-CityAttractions</a>	dp, dp_trees or segment tree dp, centroid-decomposition	6	<a href="#">Sol</a>	[136]	p2		11
<a href="#">COCI 06-Debug</a>	string processing, hashing, masks, [solve COCI 06-Dvaput first]	6	<a href="#">Sol</a>	[137]	p2		4
<a href="#">IOI 15-boxes</a>	dp, greedy	6	<a href="#">Sol</a>	[16]	p2	1	13
<a href="#">COCI 14-bob</a>	dp, histogram, monotonic deque or datastructures	6	<a href="#">Sol</a>	[16]	p2		5

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">infoarena rete3 [48]</a>	dp, math	6	<a href="#">Sol</a>	[16]	p2		4
<a href="#">COCI 15-savez</a>	dp, hashing	6	<a href="#">Sol</a>	[16]	p2		2
<a href="#">CEOI 06-Queue</a>	bf, graph, stl, bst	6	<a href="#">Sol</a>	[2]	p2		4
<a href="#">USACO 11nov-bsudoku-gold</a>	dp, dp_bitmasks	6		[24]	p2		3
<a href="#">APIO 08-DNA</a>	dp, dp_counting, dp_build_output	6	<a href="#">Sol</a>	[26]	p2	1	9
<a href="#">Baltic 12-mobile</a>	greedy, binary search, stack, circles	6	<a href="#">Sol</a>	[32]	p2	1	10
<a href="#">POI 07-Flood</a>	greedy, graph	6	<a href="#">Sol</a>	[32]	p2		2
<a href="#">IOIPractice 19-packing</a>	greedy, bf, [strict TL - optimizations], [output-only]	6	<a href="#">Sol</a>	[32]	p2		2
<a href="#">CEOI 11-Balloons</a>	geometry, circles, binary search or formula	6	#ERROR!	[38]	p2	1	2
<a href="#">USACO 17dec-greedy-plat</a>	datastructures, set or segment tree	6		[4]	p2		2
<a href="#">USACO 18feb-slingshot-plat</a>	geometry, sweep line, bit or segment tree	6		[44]	p2		2
<a href="#">Balkan 16-Conference</a>	graph, ad-hoc. [reverse input]	6	<a href="#">Sol</a>	[46]	p2		6
<a href="#">POI 17-Sports</a>	graph, halls marriage theorem, observation, day 0	6	<a href="#">Sol (no edit)</a>	[46]	p2		1
<a href="#">infoarena matrice2 [49]</a>	graph, dsu, sorting, <b>impl</b> , <b>[cases]</b> , [easy idea]	6	<a href="#">Sol</a>	[53]	p2		4
<a href="#">infoarena nrsubsecv</a>	graph, dsu or stack	6	<a href="#">Sol</a>	[53]	p2		1
<a href="#">Baltic 09-Triangulate</a>	graph, lca	6	<a href="#">Sol</a>	[65]	p2		4
<a href="#">infoarena matrice [50]</a>	math, impl, greedy	6	<a href="#">Sol</a>	[68]	p2		1
<a href="#">IOIPractice 16-farey_sequence</a>	binary search, meta binary search, math, fractions	6		[9]	p2		2
<a href="#">USACO 17mar-art</a>	ad-hoc, prefix sum	6		[1]	p1		2
<a href="#">Baltic 17-Cat</a>	graph, centroid-decomposition, greedy or segment tree, Maximum Independent Set c	6	<a href="#">Sol</a>	[123]	p1	1	6
<a href="#">USACO 19dec-plat-snowcow</a>	segment tree, dfs, data structures	6		[13]	p1		4
<a href="#">COCI 09-Kaboom</a>	dp	6	<a href="#">Sol</a>	[16]	p1		2
<a href="#">CEOI 06-Link</a>	dp	6	<a href="#">Editorial</a>	[16]	p?	1	2
<a href="#">USACO 15feb-censor</a>	ad-hoc, hashing, [no string algo in IOI]	6	<a href="#">Sol</a>	[1]		1	4
<a href="#">infoarena identice</a>	ad-hoc, greedy, [Romanian txt]	6	<a href="#">Sol</a>	[1]			1
<a href="#">IOI 03-guess</a>	ad-hoc, optimizations	6	<a href="#">Sol</a>	[1]		1	1
<a href="#">USACO 20feb-triangles</a>	ad-hoc, prefix sum	6		[1]			1
<a href="#">NOIMOCK 15-chessboard</a>	ad-hoc, [communication]	6		[1]			
<a href="#">IOI 12-scrivener</a>	string processing, trie or binary lifting or lca or segment tree, persistent	6	<a href="#">Sol</a>	[101]			13
<a href="#">CEOI 11-Matching [51]</a>	string processing, kmp	6	<a href="#">Editorial</a>	[102]		1	1
<a href="#">Dmoj stnbd4</a>	mo's algorithm, bit, [count inversion]	6	<a href="#">Sol</a>	[107]			2
<a href="#">DMOPC 16-MollyMangaShopping</a>	mo's algorithm	6		[107]			1
<a href="#">COCI 08-Matrica</a>	impl	6	<a href="#">Sol</a>	[109]			2
<a href="#">IZhO 18-chessboard</a>	impl, math	6		[109]			2
<a href="#">JOISC 17-broken_device</a>	impl, cases, boring, [communication style] - <a href="https://oj.uz/submission/67071">https://oj.uz/submission/67071</a> , [See JOIS	6	<a href="#">Sol</a>	[109]			1
<a href="#">EOI 18-d1-A</a>	dp, dp_d&c_opt, binary search	6		[112]		1	2



Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">MCO 16-town_planning</a>	graph, centroid-decomposition	6	<a href="#">Sol</a>	[123]			1
<a href="#">Balkan 12-balls</a>	dp, dp_convex_hull, binary search	6	<a href="#">Sol</a>	[124]			1
<a href="#">CEOI 04-Two</a>	dp, dp_convex_hull, tree, [k-median problem]	6	<a href="#">Sol</a>	[124]			1
<a href="#">infoarena padurari</a>	dp, dp_alien	6	<a href="#">Sol</a>	[127]			1
<a href="#">Baltic 11-Trees [52]</a>	segment tree, [=CSA41 candles]	6		[13]			2
<a href="#">POI 13-kon</a>	segment tree, lazy or sqrt decomposition	6	<a href="#">Sol</a>	[13]			1
<a href="#">POI 14-Rally</a>	segment tree, topological sort	6		[13]			1
<a href="#">IOI 12-tournament</a>	dp, dp_trees or segment tree	6	<a href="#">Sol</a>	[136]		1	6
<a href="#">USACO 12dec-runaway</a>	dp, dp_trees or lca, prefix sum	6	<a href="#">Sol</a>	[136]			5
<a href="#">infoarena arb2</a>	dp, dp_trees, [Romanian txt]	6	<a href="#">Sol</a>	[136]			2
<a href="#">IOI 09-raisins</a>	dp, prefix sum	6	<a href="#">Editorial</a>	[16]		1	6
<a href="#">IZhO 17-bootfall</a>	dp, knapsack	6	<a href="#">Sol</a>	[16]			6
<a href="#">CEOI 05-Service</a>	dp, <b>impl</b>	6	<a href="#">Editorial</a>	[16]			2
<a href="#">infoarena pitici</a>	dp, topological sort, DAG, [assign for romanians only]]	6		[16]		1	2
<a href="#">JOISC 19-lamps</a>	dp	6		[16]			2
<a href="#">infoarena v2d</a>	dp, [strict time], [assign for romanians only]]	6	<a href="#">Sol</a>	[16]			1
<a href="#">COCI 18-sajam</a>	todo, [weak cases]	6		[222]			1
<a href="#">JOIOC 15-electionCampaign</a>	todo, is hld ?	6		[222]			1
<a href="#">COCI 14-Janje</a>	todo	6		[222]			
<a href="#">JOISC 14-Bottle</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 14-Ramen</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 14-Stamps</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 15-Building3</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 15-CardGame</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 15-Vegetable2</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 16-Employment</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 16-Matryoshka</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 16-Reporter2</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">JOISC 16-Telegraph</a>	todo, [ <b>JAPANESE</b> ]	6		[222]			
<a href="#">POI 14-Freight</a>	todo	6		[222]			
<a href="#">POI 06-Teddies</a>	dp, dp_table, impl, [roll table for memory], boring]	6	<a href="#">Sol</a>	[23]			1
<a href="#">IZhO 14-bank</a>	dp, dp_bitmasks, precompute	6		[24]			6
<a href="#">POI 04-Passage</a>	<del>dp, dp_bitmasks, bf, [observe to optimize], [same idea as COCI 16-vjestica]</del>	<del>6</del>	<a href="#">Sol</a>	[24]			<del>5</del>
<a href="#">IOI 04-artemis</a>	geometry. sweep line, dp, [weak test cases?]	6	<a href="#">Sol</a>	[37]			2
<a href="#">CEOI 14-fangorn</a>	geometry, [cases, editorial], [easy idea]	6	<a href="#">Sol</a>	[37]			1
<a href="#">COCI 09-Patuljci</a>	<del>datastructures, d&amp;c, randomization, [~=COCI 09-snowwhite], [subpart of CF840-D1-E]</del>	<del>6</del>	<a href="#">Editorial</a>	[4]			<del>3</del>

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">Infoarena Struti</a>	datastructures, [Romanian txt]	6	<a href="#">Sol</a>	[4]			1
<a href="#">TOKIOpen 17-Radius</a>	datastructures	6	<a href="#">Sol</a>	[4]			1
<a href="#">COCI 07-Poklon</a>	datastructures	6	<a href="#">Editorial</a>	[4]			1
<a href="#">infoarena copaci</a>	geometry, polygon, pick's theorem	6	<a href="#">Sol</a>	[43]			1
<a href="#">COCI 14-Mafija</a>	graph, cycles, greedy, [max independent set in pseudoforest]	6	<a href="#">Sol</a>	[46]		2	4
<a href="#">JOISC 13-Presents</a>	graph, cycles, scc, [JAPANESE]	6		[46]			
<a href="#">Baltic 05-Maze</a>	graph, bfs, [Input Processing is boring]	6	<a href="#">Editorial</a>	[48]			1
<a href="#">CEOI 18-Toy</a>	graph, dfs, [random optimizations]	6	<a href="#">Sol</a>	[50]			5
<a href="#">COCI 17-usmjeri</a>	graph, dfs, coloring	6	<a href="#">Editorial</a>	[50]		1	4
<a href="#">Baltic 18-LovePolygon</a>	graph, dfs, greedy or dp_trees	6	<a href="#">Sol</a>	[50]		1	3
<a href="#">Infoarena Treesearch</a>	graph, dfs, [Romanian txt]	6	<a href="#">Sol</a>	[50]			1
<a href="#">Baltic 14-portals</a>	graph, dijkstra, impl	6	<a href="#">Sol</a>	[52]			2
<a href="#">JOISC 13-BusTour</a>	graph, dijkstra, impl, [JAPANESE]	6		[52]			
<a href="#">COCI 14-Suma</a>	graph, dsu, math, impl	6	<a href="#">Sol</a>	[53]			1
<a href="#">USACO 11nov-steeple-gold</a>	graph, max-flow, bipartite match, [direct]	6		[58]			1
<a href="#">IOI 03-maintain</a>	graph, mst	6	<a href="#">Sol</a>	[60]			4
<a href="#">USACO 11dec-simplify-gold</a>	graph, mst, [basic]	6		[60]			1
<a href="#">POI 12-Festival</a>	graph, scc	6	<a href="#">Editorial</a>	[61]			1
<a href="#">CEOI 15-pipes</a>	graph, scc, dsu or lca, dsu, [LONG code in notes, https://dunjjudge.me/analysis/problems/15-pipes]	6	#ERROR!	[61]			1
<a href="#">POI 01-SPO</a>	graph, scc, 2-sat	6	<a href="#">Sol</a>	[62]			1
<a href="#">Baltic 08-Gates</a>	graph, scc, 2-sat, [direct]	6	<a href="#">Sol</a>	[62]			1
<a href="#">COCI 20-zapina</a>	math, dp, todo link	6	<a href="#">Sol</a>	[68]			1
<a href="#">infoarena penal</a>	math, [Romanian txt]	6	<a href="#">Sol</a>	[68]			1
<a href="#">NOI 12-modsum</a>	math, [https://www.comp.nus.edu.sg/~noi/2012/2012_soln.pdf]	6	<a href="#">Sol</a>	[68]			1
<a href="#">CEOI 07-Nasty</a>	math, infix to postfix, expression parsing	6		[78]			
<a href="#">infoarena porcjoc</a>	math, inclusion-exclusion, math	6	<a href="#">Sol</a>	[86]			1
<a href="#">IOI 11-ricehub</a>	binary search, math, <b>median</b> , greedy	6	<a href="#">Sol</a>	[9]		1	10
<a href="#">IZhO 13-burrow</a>	binary search, then SPOJ HISTOGRAM, [=APIOPractice 14-minsub, SPOJ MINSUB]	6	<a href="#">Sol</a>	[9]		1	4
<a href="#">APIO 08-Beads [53]</a>	binary search, persistence	6	<a href="#">Sol - Do not</a>	[9]			3
<a href="#">infoarena minim2</a>	binary search, math, [classical]	6	<a href="#">Sol</a>	[9]			1
<a href="#">MCOCAMP 16-flipbits</a>	math, probability, ad-hoc	6	<a href="#">Sol (no edit)</a>	[91]			
<a href="#">MCO 17-ScientificResearch</a>	math, mod inv or fft	6	<a href="#">Editorial</a>	[96]			1
<a href="#">COCI 09-Zuma</a>	dp, dp_ranges	5.75	<a href="#">Sol</a>	[31]	p4	1	6
<a href="#">POI 08-BBB</a>	greedy, datastructures, prefix, suffix	5.75	<a href="#">Sol</a>	[32]	p4		3
<a href="#">POI 10-Teleport</a>	graph, bfs	5.75	<a href="#">Editorial</a>	[48]	p4		2
<a href="#">IOI 16-paint</a>	dp, backtracking	5.75	<a href="#">Sol</a>	[16]	p3 v2	1	12

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">Balkan 18-zalmoxis</a>	greedy, tree, constructive, observation	5.75	<a href="#">Sol</a>	[32]	p3 v2	3	8
<a href="#">IOI 08-linear</a>	dp, dp_build_output, lexi, graph or combinatorics, [IOI08_linear_garden]	5.75	<a href="#">Sol</a>	[111]	p3	1	10
<a href="#">CEOI 17-Building</a>	dp, dp_convex_hull, Lichao segment tree or ad-hoc, binary partition	5.75	<a href="#">Sol</a>	[124]	p3		12
<a href="#">USACO 17jan-subrev-plat</a>	dp	5.75		[16]	p3		13
<a href="#">COCI 17-kas [54]</a>	dp, state compression, [repeated], [rephrasing You need to select some elements and	5.75	<a href="#">Sol</a>	[16]	p3		8
<a href="#">CSES 1112</a>	dp, prefix sum, [https://gist.github.com/luciocf/5f35f24f4c7e510fb95e09aba9eacad2]	5.75	<a href="#">Sol</a>	[16]	p3		5
<a href="#">COCI 08-Slikar</a>	dp, d&c, dp_build_output, [optimize memory], [easy idea]	5.75	<a href="#">Sol</a>	[16]	p3	1	4
<a href="#">IOIPractice 14-skwishinese-ioi14</a>	dp, strings, some const optimizations	5.75	<a href="#">Sol</a>	[16]	p3		4
<a href="#">infoarena scara2 [55]</a>	dp, bitmasks	5.75	<a href="#">Sol</a>	[16]	p3	1	2
<a href="#">IOI 19-shoes</a>	greedy, impl or bit	5.75	<a href="#">Official sols</a>	[32]	p3		4
<a href="#">infoarena regat [56]</a>	datastructures, trees, dfs, optimizations, [repeated idea]	5.75	<a href="#">Sol</a>	[4]	p3		5
<a href="#">IOI 13-dreaming</a>	graph, bfs, tree diameter, [tree centroid], [easier version CF1092-D3-E], [also https://v	5.75	<a href="#">Sol</a>	[49]	p3		12
<a href="#">COI 07-Tamnica</a>	graph, dijkstra, compression, math	5.75	<a href="#">Sol</a>	[52]	p3		4
<a href="#">IOIPractice 16-hallway</a>	graph, dijkstra, binary search, circles	5.75		[52]	p3	2	3
<a href="#">JOI 17-joioi</a>	binary search, greedy	5.75	<a href="#">Sol</a>	[9]	p3		2
<a href="#">COCI 16-cezar [57]</a>	graph, dfs, topological sort, [official cases are weak (used on oz.uz). Please AC on dr	5.75	<a href="#">Sol</a>	[119]	p2	2	8
<a href="#">Baltic 07-Escape</a>	graph, max-flow, min-cut, vertex split, basic circles, [newcomers]	5.75	<a href="#">Sol</a>	[120]	p2		1
<a href="#">USACO 17feb-nocross-plat</a>	dp, segment tree	5.75		[16]	p2		5
<a href="#">infoarena secvbest [58]</a>	dp, deque, implementation	5.75	<a href="#">Sol</a>	[16]	p2	1	2
<a href="#">COCI 14-Neo</a>	dp, dp_subrectangle, 2d, observations	5.75	<a href="#">Editorial</a>	[20]	p2	1	5
<a href="#">USACO 18dec-dining</a>	graph, dijkstra	5.75		[52]	p2		3
<a href="#">POI 10-Pilots</a>	two pointers, sliding window or rmq	5.75	<a href="#">Sol</a>	[110]	p1		3
<a href="#">CEOI 03-Hanoi [59]</a>	ad-hoc, hanoi	5.75	<a href="#">Sol</a>	[1]			2
<a href="#">RusOI-reg 15-search</a>	string processing, trie, impl, bf, [russian]	5.75		[101]			1
<a href="#">NOI 11-tutor</a>	dp, impl, [standard]	5.75	<a href="#">Editorial</a>	[16]		1	2
<a href="#">IOIQ 18-r2-B</a>	dp, dp_counting or greedy	5.75	<a href="#">Sol</a>	[26]			2
<a href="#">POI 04-Strings</a>	graph, impl	5.75	<a href="#">Editorial</a>	[46]			1
<a href="#">NOI 16-fabric</a>	math ?	5.75	<a href="#">Editorial</a>	[68]		1	2
<a href="#">POI 09-Fire</a>	graph, dfs or dp	5.5	<a href="#">Sol</a>	[50]	p4		1
<a href="#">CEOI 03-Therace [60]</a>	math, simulation	5.5	<a href="#">Sol</a>	[68]	p4	1	2
<a href="#">POI 15-Trous</a>	binary search, sliding window, [stack trick/convex hull optimization]	5.5	<a href="#">Sol</a>	[9]	p4	1	7
<a href="#">IOI 16-dna</a>	binary search, impl	5.5	<a href="#">Sol</a>	[9]	p4		5
<a href="#">Balkan 17-Monsters</a>	datastructures, greedy, stack, cumulative sum	5.5	<a href="#">Sol</a>	[4]	p3 v2	1	8
<a href="#">ROJS 17-ultimateorbs</a>	datastructures, monotonic stack, greedy or d&c	5.5	<a href="#">Sol</a>	[4]	p3 v2		4
<a href="#">IOI 18-combo</a>	ad-hoc, [Cool restore X with queries problem.]	5.5	<a href="#">Sol</a>	[1]	p3	1	12
<a href="#">JOIOC 18-Xylophone</a>	ad-hoc, interactive	5.5	<a href="#">Sol</a>	[1]	p3		9

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">infoarena interact</a>	ad-hoc, interactive, [harder version infoarena password2]	5.5	<a href="#">Sol</a>	[1]	p3		4
<a href="#">JOISC 18-library</a>	ad-hoc, interactive, binary search, [todo review submission link]	5.5	<a href="#">Sol</a>	[1]	p3	1	3
<a href="#">POI 10-Game</a>	ad-hoc, sorting	5.5	<a href="#">Editorial</a>	[1]	p3		2
<a href="#">COCI 19-parametriziran</a>	ad-hoc, bitmasks	5.5	<a href="#">Sol</a>	[1]	p3		1
<a href="#">CCO 18-GradientDescent</a>	ternary search, impl or binary search, interactive	5.5	<a href="#">Sol</a>	[10]	p3		12
<a href="#">CEOI 15-bobek</a>	meet in middle, bf	5.5	<a href="#">AC</a>	[11]	p3		8
<a href="#">COCI 17-san</a>	meet in middle	5.5	<a href="#">Editorial</a>	[11]	p3		6
<a href="#">IOIQ 18-onsite-C</a>	two pointers, median	5.5	<a href="#">Sol</a>	[110]	p3		2
<a href="#">POI 10-Blocks</a>	two pointers, prefix sum	5.5	<a href="#">Sol</a>	[110]	p3		1
<a href="#">infoarena puncte [61]</a>	dp, dp_convex_hull or LiChao	5.5	<a href="#">Sol</a>	[124]	p3		3
<a href="#">IZHO 14-divide</a>	segment tree, lazy, dp	5.5	<a href="#">Sol</a>	[13]	p3		7
<a href="#">NOI 17-very_best_pokemon</a>	segment tree or bit, dfs or merge-sort tree with updates, binary-lifting, dfs	5.5	<a href="#">Sol</a>	[13]	p3		1
<a href="#">infoarena sir3 [62]</a>	segment tree	5.5	<a href="#">Sol</a>	[13]	p3		1
<a href="#">USACO 15jan-gold_movie</a>	dp, dp_sos	5.5		[134]	p3		3
<a href="#">CSES 1654</a>	dp, dp_sos	5.5	<a href="#">Sol</a>	[134]	p3		2
<a href="#">Baltic 19-kitchen</a>	dp	5.5	<a href="#">Editorial</a>	[16]	p3		3
<a href="#">COCI 17-vode</a>	dp, periodic output	5.5	<a href="#">Sol</a>	[16]	p3		3
<a href="#">USACO 16mar-262144-plat</a>	dp or greedy	5.5		[16]	p3		3
<a href="#">POI 16-Johny</a>	dp, bit. permutations or math, recurrence, swaps, [also https://www.youtube.com/watch?v=...	5.5	<a href="#">Sol</a>	[16]	p3		2
<a href="#">POI 13-Bytecom</a>	dp	5.5	<a href="#">Sol</a>	[16]	p3		2
<a href="#">infoarena amenzi</a>	dp, graph, [strict time]	5.5	<a href="#">Sol</a>	[16]	p3		1
<a href="#">infoarena peri</a>	dp, [has a cute $O(n^3)$ solution using a dp approach similar to the max sum subarray]	5.5	<a href="#">Sol</a>	[16]	p3		1
<a href="#">COCI 17-automobil</a>	dp or math	5.5	<a href="#">Sol</a>	[16]	p3		1
<a href="#">CSA circuits</a>	dp, dp_bitmasks, dp_counting	5.5	<a href="#">Sol</a>	[24]	p3		2
<a href="#">COI 19-segway</a>	simulation	5.5	<a href="#">Sol</a>	[3]	p3		2
<a href="#">POI 96-wie</a>	greedy, sorting	5.5	<a href="#">Sol</a>	[32]	p3		5
<a href="#">Balkan 11-Medians</a>	greedy, binary Search	5.5	<a href="#">Sol</a>	[32]	p3		3
<a href="#">CEOI 11-Hotel</a>	greedy	5.5	<a href="#">Sol</a>	[32]	p3		3
<a href="#">COI 06-Patrik</a>	datastructures, stack or monotonic queue or bit, [easy if repeated idea]	5.5	<a href="#">Sol</a>	[4]	p3		14
<a href="#">infoarena permsort [63]</a>	datastructures	5.5	<a href="#">Sol</a>	[4]	p3		3
<a href="#">CEOI 06-Antenna</a>	geometry, sweep line, radial sweep, binary search	5.5	<a href="#">Sol</a>	[44]	p3		2
<a href="#">POI 05-Double_Row</a>	graph, greedy, [implicit]	5.5	<a href="#">Sol</a>	[46]	p3		6
<a href="#">USACO 13jan-island</a>	graph, floyd, traveling sales man	5.5		[55]	p3	1	1
<a href="#">COCI 07-Kemija</a>	math, ad-hoc	5.5	<a href="#">Sol</a>	[68]	p3		3
<a href="#">COCI 07-Granica</a>	math, gcd, ad-hoc	5.5	<a href="#">Sol</a>	[73]	p3		3
<a href="#">Baltic 08-Grid</a>	binary search, combinatorics, impl or dp	5.5	<a href="#">Sol</a>	[9]	p3	1	6

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">POI 14-Couriers</a>	binary searchm randomization	5.5	<a href="#">Sol</a>	[9]	p3		1
<a href="#">IOI 08-printer</a>	string processing, trie or greedy, sorting	5.5	<a href="#">Sol</a>	[101]	p2		9
<a href="#">Baltic 14-friends</a>	string processing, rolling hash, bf	5.5	<a href="#">Sol</a>	[105]	p2	1	7
<a href="#">POI 96-kod</a>	bst	5.5	<a href="#">Sol</a>	[108]	p2		1
<a href="#">IOI 16-molecules</a>	two pointers, greedy	5.5	<a href="#">Editorial</a>	[110]	p2		13
<a href="#">EOI IOI 18-QR-C</a>	two pointers	5.5	<a href="#">Sol</a>	[110]	p2		1
<a href="#">CEOI 03-Trip [64]</a>	dp, dp_build_output, lcs	5.5	<a href="#">Editorial</a>	[111]	p2		1
<a href="#">Baltic 13-numbers</a>	dp, dp_digit, impl, [~=ROI-regional 16-numbers]	5.5	<a href="#">Sol</a>	[114]	p2		5
<a href="#">COCI 08-Tresnja</a>	dp, dp_digit	5.5	<a href="#">Sol</a>	[114]	p2		1
<a href="#">COCI 07-Cudak</a>	dp, dp_digit	5.5	<a href="#">Editorial</a>	[114]	p2		1
<a href="#">USACO 19jan-redistricting_plat</a>	segment tree, dp	5.5		[13]	p2		6
<a href="#">COCI 17-poklon</a>	segment tree or bit or dfs, [count unique]	5.5	<a href="#">Editorial</a>	[13]	p2		4
<a href="#">Baltic 06-Countries</a>	dp, dag, model graph	5.5	<a href="#">Sol</a>	[16]	p2		2
<a href="#">JOI 15-Cake2 [65]</a>	dp, [JAPANESE], [From google translated statement you may think that the first player	5.5	<a href="#">Sol</a>	[16]	p2		2
<a href="#">Baltic 11-Meetings</a>	dp, divisors, [Standard trick of changing dimension for dp], []	5.5	<a href="#">Sol</a>	[16]	p2		1
<a href="#">COI 18-paprike</a>	greedy, graph	5.5		[32]	p2		5
<a href="#">IOI 04-farmer</a>	greedy or dp	5.5	<a href="#">Sol</a>	[32]	p2		4
<a href="#">CEOI 04-Trips</a>	greedy, two pointers	5.5	<a href="#">Sol</a>	[32]	p2		3
<a href="#">POI 13-Takeout</a>	greedy, [POI13_usu]	5.5	<a href="#">Sol</a>	[32]	p2		3
<a href="#">USACO 15dec-cardgame-plat</a>	greedy or segment tree	5.5		[32]	p2		3
<a href="#">Infoarena aranjare [66]</a>	greedy, data structures	5.5	<a href="#">Sol</a>	[32]	p2	1	2
<a href="#">POI 11-Sticks</a>	greedy, geometry basics, POI11_pat	5.5	<a href="#">Sol</a>	[32]	p2		2
<a href="#">JOISC 17-sparklers</a>	greedy, binary search, [See JOISC-17-abduction2.txt]	5.5	<a href="#">Sol</a>	[32]	p2		1
<a href="#">CCO 15-Hungry_Fox</a>	greedy	5.5		[32]	p2		1
<a href="#">JOISC 19-Examination</a>	datastructures, [Straightforward 2D range sum queries with point updates problem]	5.5	<a href="#">ACE</a>	[4]	p2		2
<a href="#">EJOI 17-magic</a>	datastructures, impl	5.5	<a href="#">Sol</a>	[4]	p2		1
<a href="#">USACO 16-usopen-split-gold</a>	geometry, sweep line	5.5		[44]	p2		1
<a href="#">infoarena color5</a>	graph, constructive	5.5		[46]	p2		1
<a href="#">COCI 17-portal</a>	graph, dijkstra, implicit graph, impl	5.5	<a href="#">Sol</a>	[52]	p2		3
<a href="#">NOI 19-pilot</a>	graph, dsu, stack combi	5.5	<a href="#">AC</a>	[53]	p2		4
<a href="#">COCI 18-priglavci</a>	graph, max-flow, bipartite match, binary search	5.5	<a href="#">Sol</a>	[58]	p2		4
<a href="#">USACO 15jan-grass</a>	graph, scc	5.5	<a href="#">Sol</a>	[61]	p2		4
<a href="#">infoarena cifru [67]</a>	math, combinatorics	5.5	<a href="#">Sol</a>	[82]	p2		3
<a href="#">USACO 18dec-cowpatibility</a>	math, inclusion-exclusion, hashing	5.5		[86]	p2		2
<a href="#">IOIPractice 14-questions-i-ask-myself-ioi</a>	binary search, factrization, optimization	5.5	<a href="#">Sol</a>	[9]	p2		3
<a href="#">Dmoj TortureChamber</a>	math, sieve, segments	5.5		[93]	p2		1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">USACO 17feb-mincross-plat</a>	ad-hoc	5.5		[1]	p1		2
<a href="#">Baltic 14-network</a>	impl	5.5	<a href="#">Sol</a>	[109]	p1		3
<a href="#">COCI 06-Dvapat</a>	string processing, hashing, binary search, <b>impl</b> , [double hashing]	5.5	<a href="#">Sol</a>	[137]	p1		2
<a href="#">IOIPractice 19-Transfer</a>	ad-hoc, huffman coding, interactive, [~= IOIPractice 17-Coins]	5.5	<a href="#">Sol</a>	[1]			4
<a href="#">POI 05-Bus</a>	ad-hoc, sorting or segment tree, dp	5.5	<a href="#">Sol</a>	[1]			1
<a href="#">JOISC 13-Mountain</a>	ad-hoc, interactive?, [JAPANESE]	5.5		[1]			
<a href="#">Balkan 15-UltimateTTT</a>	impl, bf, [problem in text cases?]	5.5		[109]		1	2
<a href="#">JOI 16-CollectingStamps2</a>	impl, prefix sum, suffix sum, [JAPANESE]	5.5	<a href="#">AC</a>	[109]			1
<a href="#">COCI 06-lista</a>	impl, linked-list, ad-hoc	5.5	<a href="#">Sol</a>	[109]			1
<a href="#">JOI 14-JOIEmblem</a>	impl, [JAPANESE]	5.5		[109]			
<a href="#">JOI 17-semiexpress</a>	impl	5.5		[109]			
<a href="#">infoarena drept2</a>	two pointers, deque	5.5		[110]			1
<a href="#">COCI 19-deblo</a>	graph, centroid-decomposition, bit, [=CF766-D2-E]	5.5	<a href="#">Sol</a>	[123]			2
<a href="#">POI 11-rod [68]</a>	graph, dsu-on-trees, [bigger constraints than POI 11-Rotation - POI11_rot]	5.5	<a href="#">Sol - see ex</a>	[125]			
<a href="#">JOISC 13-Collecting</a>	segment tree, math, [JAPANESE]	5.5		[13]			
<a href="#">infoarena arbore7 [69]</a>	dp, dp_trees	5.5	<a href="#">Sol</a>	[136]			2
<a href="#">USACO 12nov-btree-gold</a>	dp, dp_trees	5.5		[136]			1
<a href="#">USACO 17jan-promote-plat</a>	bit, dfs	5.5		[15]			2
<a href="#">USACO 11nov-median-gold</a>	bit	5.5		[15]			1
<a href="#">Baltic 13-ballmachine</a>	dp, trees or lca	5.5	<a href="#">Sol</a>	[16]			4
<a href="#">IOI 02-Frog</a>	dp, [time memory] or graph, ad-hoc	5.5	<a href="#">Sol</a>	[16]		1	3
<a href="#">USACO 13open-photo</a>	dp	5.5		[16]		1	3
<a href="#">COI 15-kovanice</a>	dp, dsu, [basic]	5.5	<a href="#">Sol</a>	[16]			2
<a href="#">BalticPractice 18-Citations</a>	dp, sorting, greedy	5.5	<a href="#">Sol</a>	[16]			2
<a href="#">infoarena asmin</a>	dp, trees	5.5	<a href="#">Sol</a>	[16]			1
<a href="#">infoarena nkbiti</a>	dp, matrix pow, [classical]	5.5	<a href="#">Sol</a>	[16]			1
<a href="#">infoarena profit</a>	dp, [Romanian txt]	5.5	<a href="#">Sol</a>	[16]			1
<a href="#">infoarena zip</a>	dp, hashing, strings	5.5	<a href="#">Sol</a>	[16]			1
<a href="#">infoarena zmeu</a>	dp, bfs, [Romanian txt]	5.5	<a href="#">Sol</a>	[16]			1
<a href="#">IOIPractice 16-lights-out</a>	dp	5.5		[16]			1
<a href="#">JOISC 13-Mascots</a>	dp, mod inv, factorial, [JAPANESE]	5.5		[16]			
<a href="#">POI 10-Frog</a>	todo	5.5	<a href="#">Editorial</a>	[222]			2
<a href="#">Dmoj MostlyTalking</a>	todo	5.5		[222]			1
<a href="#">DMOPC 14-SaveNagato</a>	todo	5.5		[222]			1
<a href="#">DMPG 16-MMORPGII</a>	todo	5.5		[222]			1
<a href="#">UTSOpen 18-ABCs</a>	todo, boring	5.5		[222]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">UTSOpen 18-LoveTriangle</a>	todo, boring	5.5		[222]			1
<a href="#">POI 14-Salad</a>	todo	5.5	<a href="#">Editorial</a>	[222]			
<a href="#">JOISC 14-Friends</a>	todo, [JAPANESE]	5.5		[222]			
<a href="#">JOISC 15-Copypaste2</a>	todo, [JAPANESE]	5.5		[222]			
<a href="#">JOISC 15-Road</a>	todo, [JAPANESE]	5.5		[222]			
<a href="#">MCO 16-cropharvesting</a>	todo	5.5		[222]			
<a href="#">COCI 08-Lubenica</a>	dp, dp_bitmasks	5.5	<a href="#">Sol</a>	[24]			2
<a href="#">COCI 06-V</a>	dp, dp_counting	5.5	<a href="#">Editorial</a>	[26]			2
<a href="#">IZhO 17-money</a>	greedy	5.5	<a href="#">Sol</a>	[32]		1	8
<a href="#">APIOPractice 14-mcamp</a>	greedy or bit	5.5	<a href="#">Sol</a>	[32]			2
<a href="#">POI 15-Seals</a>	greedy, impl	5.5	<a href="#">Sol</a>	[32]			2
<a href="#">TOKIOpen 17-Magic</a>	greedy, matching	5.5	<a href="#">Sol</a>	[32]			1
<a href="#">COCI 16-kvalitetni</a>	greedy, math, [hard txt?]	5.5	<a href="#">Editorial</a>	[32]			1
<a href="#">IOI 05-game [70]</a>	game theory, interactive, [use cout/cin not printf/scanf]	5.5	<a href="#">Sol</a>	[33]			2
<a href="#">infoarena cuiburi</a>	geometry, dp, [Romanian txt]	5.5	<a href="#">Sol</a>	[37]			1
<a href="#">USACO 14dec-marathon</a>	datastructures, [normal idea, heavy DS, e.g. segment tree]	5.5	<a href="#">Sol</a>	[4]			3
<a href="#">Info1Cup 19-Simple</a>	datastructures, impl, [where OJ]	5.5	<a href="#">Sol</a>	[4]			1
<a href="#">infoarena omizi</a>	datastructures, dfs and similar, [Romanian txt]	5.5	<a href="#">Sol</a>	[4]			1
<a href="#">IOI 00-car</a>	graph, impl, [tediuos impl]	5.5	<a href="#">Editorial</a>	[46]			2
<a href="#">Infoarena grea [71]</a>	graph, bfs, datastructures	5.5	<a href="#">Sol</a>	[48]			1
<a href="#">POI 06-Professor</a>	graph, bfs, impl	5.5	<a href="#">Editorial</a>	[48]			1
<a href="#">POI 14-Hotels</a>	graph, bfs	5.5	<a href="#">Editorial</a>	[48]			
<a href="#">JOI 16-TrainFare</a>	graph, dfs, bfs, [JAPANESE]	5.5		[50]			
<a href="#">JOISC 13-Spy</a>	graph, dfs, [JAPANESE]	5.5		[50]			
<a href="#">JOI 15-JOIPark</a>	graph, dijkstra, [JAPANESE]	5.5		[52]			
<a href="#">NOI 14-sightseeing</a>	graph, mst	5.5	<a href="#">Editorial</a>	[60]			1
<a href="#">TOKIOpen 17-Beauty</a>	graph, scc, biconnected components, block cut tree	5.5	<a href="#">Sol</a>	[64]			1
<a href="#">USACO 15dec-maxflow-plat</a>	graph, lca, [close to CF192-D2-E]	5.5		[65]			2
<a href="#">CEOI 17-mousetrap</a>	binary search or search	5.5	<a href="#">Editorial</a>	[9]		1	2
<a href="#">JOI 13-Tower</a>	binary search, impl, [JAPANESE]	5.5		[9]			
<a href="#">JOI 14-Baumkuchen</a>	binary search, [JAPANESE]	5.5		[9]			
<a href="#">IOI 16-tetris</a>	ad-hoc, games	5.25	<a href="#">Sol</a>	[1]	p3		3
<a href="#">COCI 07-Turbo</a>	bit	5.25	<a href="#">Editorial</a>	[15]	p3		2
<a href="#">COCI 09-Kraljevi</a>	dp	5.25	<a href="#">Editorial</a>	[16]	p3		3
<a href="#">IOI 04-phidias</a>	dp	5.25	<a href="#">Editorial</a>	[16]	p3		3
<a href="#">IOI 04-hermes</a>	dp, observation	5.25	<a href="#">Editorial</a>	[16]	p3		2



Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">SNSS 18-R2-B</a>	bf, strings, hashing, [russian txt]	5.25	#ERROR!	[2]	p3		1
<a href="#">COCI 07-Princeza</a>	geometry, ad-hoc	5.25	<a href="#">Editorial</a>	[37]	p3		1
<a href="#">COCI 06-Jogurt</a>	graph, trees, math	5.25	<a href="#">Sol</a>	[46]	p3		4
<a href="#">Baltic 11-Lamp</a>	graph, bfs, 0-1 bfs or dijkstra	5.25	<a href="#">Sol</a>	[48]	p3		3
<a href="#">COCI 06-Kamen</a>	graph, dfs	5.25	<a href="#">Sol</a>	[50]	p3	1	2
<a href="#">POI 08-Mafia</a>	graph, dfs, cycles	5.25	<a href="#">Sol</a>	[50]	p3		2
<a href="#">Datatähti Open19-D</a>	math, combinatorics, impl, tree	5.25		[82]	p3		3
<a href="#">COCI 07-Barica</a>	dp, sorting, sweep	5.25	<a href="#">Sol</a>	[16]	p2		1
<a href="#">NOI 17-best_place</a>	ad-hoc, math	5.25	<a href="#">Editorial</a>	[1]			2
<a href="#">IOIQ 19-d2-C</a>	dp, dag	5.25		[16]		1	3
<a href="#">COCI 12-jedan</a>	dp, [https://ideone.com/GSEJmj]	5.25	<a href="#">Editorial</a>	[16]		1	2
<a href="#">NOIMOCK 15-rooms</a>	dp, graph	5.25		[16]			
<a href="#">IOI 01-Twofive</a>	todo	5.25	<a href="#">Editorial</a>	[222]			2
<a href="#">COCI 08-Svada</a>	binary search	5.25	<a href="#">Editorial</a>	[9]			1
<a href="#">COCI 08-BST</a>	graph, trees, datastructures	5.1	<a href="#">Sol</a>	[46]	p3		2
<a href="#">POI 10-Railway</a>	graph, impl	5	<a href="#">Editorial</a>	[46]	p4		1
<a href="#">COCI 17-poklon7-r7</a>	graph, dfs, math	5	<a href="#">Editorial</a>	[50]	p4		1
<a href="#">IOI 10-quality</a>	ad-hoc, prefix sums, binary search	5	<a href="#">Sol</a>	[1]	p3 v2		10
<a href="#">Baltic 15-net</a>	greedy, dfs or dp, [cover the tree with minimum number of paths from one node to another]	5	<a href="#">Sol</a>	[32]	p3 v2	2	17
<a href="#">IOI 13-cave</a>	binary search, interactive, d&c, [also sol at http://blog.brucemerry.org.za/2013/07]	5	<a href="#">Sol</a>	[9]	p3 v2		13
<a href="#">POI 12-Warehouse</a>	greedy, datastructures, binary search, [greedy with undo]	5	<a href="#">Sol</a>	[32]	p3 v1		5
<a href="#">USACO 11dec-photo-gold</a>	ad-hoc, merge sort	5		[1]	p3	2	5
<a href="#">COCI 13-Kusac</a>	ad-hoc	5	<a href="#">Editorial</a>	[1]	p3	2	4
<a href="#">CEOI 05-keys</a>	ad-hoc	5	<a href="#">Sol</a>	[1]	p3		2
<a href="#">infoarena bitcost [72]</a>	ad-hoc, d&c	5	<a href="#">Sol</a>	[1]	p3		1
<a href="#">COCI 15-topovi</a>	impl, observation	5	<a href="#">Sol</a>	[109]	p3		5
<a href="#">Baltic 18-MartianDNA</a>	two pointers, impl	5	<a href="#">Sol</a>	[110]	p3	1	7
<a href="#">EJOI 17-game</a>	two pointers	5	<a href="#">Sol</a>	[110]	p3	1	4
<a href="#">Baltic 10-Bins</a>	two pointers, bf, ad-hoc	5	<a href="#">Sol</a>	[110]	p3		2
<a href="#">JOI 17-foehnPhenomena</a>	segment tree or bit	5	<a href="#">Sol</a>	[13]	p3		5
<a href="#">Datatähti Open19-C</a>	bit, datastructures, offline	5		[15]	p3		1
<a href="#">Baltic 10-PCB</a>	dp, lis, nlogn, [np-hard-special-case-reduce]	5	<a href="#">Sol</a>	[16]	p3		2
<a href="#">COCI 13-domine</a>	dp, [https://ideone.com/LO0Jfr]	5	<a href="#">Editorial</a>	[16]	p3	1	2
<a href="#">COCI 14-Sabor</a>	bf, ad-hoc, [complexity analysis]	5	<a href="#">Sol</a>	[2]	p3		4
<a href="#">CCO 08-Candy</a>	todo	5		[222]	p3		1
<a href="#">DMOPC 17-IntersectingArcs</a>	todo	5		[222]	p3		1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">DMOPC 17-IntimidatingArrays</a>	todo	5		[222]	p3		1
<a href="#">IZhO 12-beauty</a>	dp, dp_bitmasks	5	<a href="#">Sol</a>	[24]	p3		5
<a href="#">COCI 19-maja</a>	dp, dp_counting	5	<a href="#">Sol</a>	[26]	p3		2
<a href="#">CEOI 11-Similarity</a>	dp, dp_counting or fft	5	<a href="#">Sol</a>	[26]	p3		1
<a href="#">COCI 18-cover</a>	dp, dp_ranges	5	<a href="#">Sol</a>	[31]	p3	1	6
<a href="#">APIO 08-Roads</a>	greedy, mst, [badly integrated checker, <a href="http://apio-olympiad.org/2008/">http://apio-olympiad.org/2008/</a> ], [english txt: <a href="#">ht</a>	5	<a href="#">Sol</a>	[32]	p3		5
<a href="#">infoarena borcane [73]</a>	greedy, constructive, pattern	5	<a href="#">Sol</a>	[32]	p3	1	2
<a href="#">COCI 07-Avogadro</a>	greedy	5	<a href="#">Editorial</a>	[32]	p3		1
<a href="#">infoarena metrouri [74]</a>	greedy, implementation	5	<a href="#">Sol</a>	[32]	p3		1
<a href="#">COCI 17-doktor</a>	geometry, circles, ad-hoc, prefix sum	5	<a href="#">Editorial</a>	[38]	p3		3
<a href="#">POI 07-Megalopolis</a>	graph, tree, traversal	5	<a href="#">Sol</a>	[46]	p3		1
<a href="#">COCI 17-ronald</a>	graph, dfs, ad-hoc	5	<a href="#">Editorial</a>	[50]	p3	1	5
<a href="#">COCI 09-Vuk</a>	graph, dijkstra, bfs	5	<a href="#">Editorial</a>	[52]	p3		2
<a href="#">IOIPractice 14-world-peace-ioi14</a>	graph, dsu or hld or 2D-range tree or k-d tree	5	<a href="#">Sol</a>	[53]	p3		2
<a href="#">CCO 07-RoadConstruction</a>	graph, dsu, bridges	5	<a href="#">Sol</a>	[53]	p3		2
<a href="#">Dmoj Inaho</a>	graph, dsu, rollback-dsu	5		[53]	p3		2
<a href="#">TOKIOpen 18-CellsTour</a>	graph, max-flow, bipartite match, [ <a href="https://ideone.com/SU69ra">https://ideone.com/SU69ra</a> ]	5	<a href="#">Sol</a>	[58]	p3		2
<a href="#">POI 16-Hedge</a>	graph, mst, 2D grid, [also <a href="https://www.youtube.com/watch?v=8CTteoBqW6A">https://www.youtube.com/watch?v=8CTteoBqW6A</a> ]	5	<a href="#">Sol</a>	[60]	p3		1
<a href="#">COCI 14-Stogovi</a>	graph, lca, persistent stack	5	<a href="#">Sol</a>	[65]	p3		3
<a href="#">UTSOpen 15-DistributionChannel</a>	graph, lca, mst	5	<a href="#">Sol</a>	[65]	p3		2
<a href="#">COCI 13-cokolade</a>	math, number theory, precomputation	5	<a href="#">Sol</a>	[68]	p3	1	3
<a href="#">CEOI 14-carnival</a>	binary search, math, interactive, d&c, [editorial]	5	<a href="#">Sol</a>	[9]	p3		11
<a href="#">COI 07-Glasnici</a>	binary search	5	<a href="#">Editorial</a>	[9]	p3		2
<a href="#">IOI 07-aliens</a>	binary search, interactive, observation, impl	5	<a href="#">Editorial</a>	[9]	p2 v2	1	6
<a href="#">NOI 13-gw</a>	ad-hoc, [OJ.UZ grading server where memory isn't freed between test cases, and it t	5	<a href="#">Sol</a>	[1]	p2		4
<a href="#">COCI 15-Slon</a>	ad-hoc, expressions, postfix, infix, queue	5	<a href="#">Editorial</a>	[1]	p2		2
<a href="#">COCI 09-Mali</a>	ad-hoc	5	<a href="#">Editorial</a>	[1]	p2		1
<a href="#">COCI 14-Jabuke</a>	ad-hoc, preprocessing or bfs	5	<a href="#">Editorial</a>	[1]	p2		1
<a href="#">USACO 19feb-gold-paintbarn</a>	ad-hoc, prefix sum	5		[1]	p2		1
<a href="#">NOI 14-orchard</a>	impl, [ <a href="https://github.com/ZeyadKhattab/Competitive-Programming/blob/master/Proble">https://github.com/ZeyadKhattab/Competitive-Programming/blob/master/Proble</a>	5	<a href="#">Editorial</a>	[109]	p2		1
<a href="#">USACO 19feb-cowdate-plat</a>	two pointers, math	5		[110]	p2		1
<a href="#">Infoarena vmin [75]</a>	dp, dp_convex_hull or LiChao, [actually not dp case]	5	<a href="#">Sol</a>	[124]	p2		2
<a href="#">POI 11-Rotation</a>	graph, dsu-on-trees or segment tree, [classical, good for practice], POI11_rot	5	<a href="#">Editorial</a>	[125]	p2		1
<a href="#">Dmoj HopScotch</a>	sqrt decomposition or dp or link-cut tree	5		[126]	p2		3
<a href="#">COCI 17-deda</a>	segment tree or bit	5	<a href="#">Sol</a>	[13]	p2		7
<a href="#">JOIOC 15-sterilizing</a>	segment tree	5	<a href="#">Sol</a>	[13]	p2		4

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">POI 17-Strikes</a>	segment tree, bfs, bfs order	5	<a href="#">Sol (no edit)</a>	[13]	p2		2
<a href="#">COCI 17-krov</a>	bit, grid compress	5		[15]	p2		2
<a href="#">COCI 06-Tenkici</a>	bit, graph or datastructures	5	<a href="#">Sol</a>	[15]	p2		1
<a href="#">COCI 07-Jednakost</a>	dp	5	<a href="#">Sol</a>	[16]	p2		2
<a href="#">COCI 07-Zapis</a>	dp	5	<a href="#">Editorial</a>	[16]	p2		2
<a href="#">USACO 16dec-team-plat</a>	dp	5		[16]	p2		2
<a href="#">COCI 18-go</a>	dp	5	<a href="#">Sol</a>	[16]	p2		1
<a href="#">CCC 16-Combining_Riceballs</a>	dp	5		[16]	p2		1
<a href="#">CCC 18-Balanced_Trees</a>	dp	5		[16]	p2		1
<a href="#">IOI 00-Post</a>	dp, dp_ranges	5	<a href="#">Editorial. G</a>	[31]	p2		2
<a href="#">USACO 14dec-cowjog</a>	greedy	5		[32]	p2		4
<a href="#">infoarena cuplaj</a>	greedy, sorting	5		[32]	p2		1
<a href="#">IOIPractice 14-bounce-bounce-bounce-ic</a>	geometry, circles, gcd	5	<a href="#">Sol</a>	[38]	p2		3
<a href="#">COCI 06-Circle</a>	geometry, circles, simulation	5	<a href="#">Sol</a>	[38]	p2		1
<a href="#">NOI 17-roadside_adverts</a>	graph. lca, mst, [https://github.com/samyravitoria/olympics-problems/blob/master/NOI	5	<a href="#">Editorial</a>	[46]	p2		1
<a href="#">COI 16-dijament</a>	graph, ad-hoc, map	5	<a href="#">Editorial</a>	[46]	p2		1
<a href="#">NOI 17-hotspot</a>	graph, dijkstra, [https://github.com/sofhasouza/CompetitiveProgramming/blob/master	5	<a href="#">Editorial</a>	[52]	p2		1
<a href="#">COCI 16-prosjecni</a>	math, bf	5	<a href="#">Editorial</a>	[68]	p2	2	3
<a href="#">COCI 15-Chewbacca</a>	math	5		[68]	p2	1	2
<a href="#">Dmoj FibonacciSequenceHarder</a>	math, bf	5		[68]	p2		2
<a href="#">SNSS 18-R1-A</a>	math, memoization	5	<a href="#">Sol</a>	[68]	p2		1
<a href="#">OSN 15-2C</a>	binary search	5	<a href="#">Sol</a>	[9]	p2		1
<a href="#">Dmoj EllisFahrengart</a>	sqrt decomposition, optimizations	5	<a href="#">Sol</a>	[126]	p1		4
<a href="#">IOI 00-walls</a>	graph, floyd, polygon, [https://blog.csdn.net/I04205613/article/details/6427378]	5	<a href="#">Sol</a>	[55]	p1	1	2
<a href="#">CEOI 05-Net</a>	graph, scc, biconnected components	5	<a href="#">Sol</a>	[64]	p1		2
<a href="#">IOI 14-gondola</a>	ad-hoc, combinatorics	5	<a href="#">Editorial</a>	[1]			13
<a href="#">JOIOC 14-secret</a>	ad-hoc, d&c, interactive	5	<a href="#">Sol</a>	[1]		1	5
<a href="#">POI 10-Beads</a>	ad-hoc, binary search or KMR or hasging	5	<a href="#">Sol</a>	[1]			3
<a href="#">IOIPractice 14-color-grid-ioi14</a>	ad-hoc, [constrains is not mentioned]	5	<a href="#">Sol</a>	[1]			2
<a href="#">DMPG 15-BlackWhite</a>	ad-hoc, prefix sum 2d	5		[1]			2
<a href="#">IOIPractice 14-christopher-candy-ioi14</a>	ad-hoc, strings, prefix sums, combinatorics	5	<a href="#">Sol</a>	[1]			1
<a href="#">infoarena covor</a>	ad-hoc, [Romanian txt]	5	<a href="#">Sol</a>	[1]			1
<a href="#">infoarena greutati</a>	ad-hoc, greedy, [Romanian txt]	5	<a href="#">Sol</a>	[1]			1
<a href="#">Baltic 05-Camp</a>	ad-hoc, 2D prefix sum, impl	5	<a href="#">Editorial</a>	[1]			1
<a href="#">POI 06-Periods</a>	ad-hoc	5	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 06-Ivana</a>	ad-hoc	5	<a href="#">Editorial</a>	[1]		1	1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 07-Muzicari</a>	ad-hoc	5	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 19-kocka</a>	ad-hoc	5	<a href="#">Sol</a>	[1]			1
<a href="#">CCC 16-Circle_Life</a>	ad-hoc	5		[1]			1
<a href="#">USACO 19mar-walk-gold</a>	ad-hoc	5		[1]			1
<a href="#">POI 12-Well</a>	ad-hoc, impl	5	<a href="#">Editorial</a>	[1]			
<a href="#">MCO 16-painting</a>	ad-hoc	5	<a href="#">Editorial</a>	[1]			
<a href="#">MCO 14-swaps</a>	ad-hoc, cycles	5	<a href="#">Sol No Edit</a>	[1]			
<a href="#">NOIMOCK 15-dynamite</a>	ad-hoc, [output only]	5		[1]			
<a href="#">Baltic 11-grow</a>	bbst, treap, implicit or segment tree or bit	5	<a href="#">Sol</a>	[106]			1
<a href="#">JOISC 13-Spaceships</a>	bbst, splay or link-cut trees, [JAPANESE]	5		[106]			
<a href="#">infoarena poarta2</a>	impl, bignum	5	<a href="#">Sol</a>	[109]			1
<a href="#">EOIQ 18-r2-C</a>	impl	5		[109]			1
<a href="#">POI 09-Brigade</a>	impl	5	<a href="#">Editorial</a>	[109]			
<a href="#">POI 16-Water_Park</a>	impl	5	<a href="#">Editorial</a>	[109]			
<a href="#">IZhO 19-stones</a>	impl	5		[109]			
<a href="#">JOISC 13-Poster</a>	impl, [JAPANESE]	5		[109]			
<a href="#">JOI 19-ExhibitionBatch</a>	two pointers, [JOI19_ho_t2]	5		[110]			5
<a href="#">USACO 13jan-lineup</a>	two pointers	5	<a href="#">Sol</a>	[110]			4
<a href="#">POI 13-Colorful</a>	two pointers	5	<a href="#">Editorial</a>	[110]			1
<a href="#">infoarena cifra4</a>	dp, dp_digit, binary search	5	<a href="#">Sol</a>	[114]			1
<a href="#">USACO 19feb-gold-cowland</a>	graph, hld	5		[122]			1
<a href="#">DMPG 18-MimiDivision</a>	sqrt decomposition	5		[126]			1
<a href="#">COCI 07-Redoks</a>	segment tree, lazy propagation	5	<a href="#">Sol</a>	[13]			3
<a href="#">IOIQ 19-r2-A</a>	segment tree, monotone queue	5		[13]			2
<a href="#">COI 08-Cvjetici</a>	segment tree or bit or sqrt decomposition	5	<a href="#">Sol</a>	[13]			1
<a href="#">ROJS 17-remove_update</a>	segment tree, prefix sum	5	<a href="#">Sol</a>	[13]			1
<a href="#">CCO 13-Tourney</a>	segment tree	5		[13]			1
<a href="#">DMOPC 18-HenriLabData</a>	segment tree	5		[13]			1
<a href="#">USACO 15dec-haybales-plat</a>	segment tree	5		[13]			1
<a href="#">COCI 12-KOSARE [76]</a>	<del>dp, dp_sos, [standard]</del>	<del>5</del>	<a href="#">Editorial</a>	[134]			<del>1</del>
<a href="#">infoarena posta2</a>	dp, dp_trees	5	<a href="#">Sol</a>	[136]			1
<a href="#">POI 16-Parade</a>	dp, dp_trees, [also https://www.youtube.com/watch?v=PRmAUzgbOBI]	5	<a href="#">Sol</a>	[136]			1
<a href="#">USACO 18feb-dirtreverse-gold</a>	dp, dp_trees, [repeated]	5		[136]			1
<a href="#">MCO 15-secret</a>	string processing or roll hashing	5	<a href="#">Sol No Edit</a>	[137]			
<a href="#">IZhO 17-GAME</a>	bit	5		[15]			2
<a href="#">USACO 11dec-grassplant-gold</a>	bit or hld, [basic]	5		[15]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">IZhO 19-sortbooks</a>	bit	5		[15]			
<a href="#">JOI 18-art</a>	dp, [max sum 1d, trivial old problem]	5	<a href="#">Sol</a>	[16]			12
<a href="#">Baltic 18-Paths</a>	dp, dp_bitmaks, dp_trees	5	<a href="#">Sol</a>	[16]		1	8
<a href="#">JOIOC 13-watching</a>	dp, binary search	5	<a href="#">Sol</a>	[16]			8
<a href="#">USACO 14dec-guard</a>	dp or bfs, bitmasks, exchange arguments	5	<a href="#">Sol</a>	[16]			6
<a href="#">IOI 10-traffic</a>	dp, tree or segment tree	5	<a href="#">Sol</a>	[16]			3
<a href="#">JOI 20-CollectingStamps3</a>	dp, JOI20_ho_t3	5	<a href="#">Sol</a>	[16]			2
<a href="#">COCI 06-Stol</a>	dp	5	<a href="#">Editorial</a>	[16]			2
<a href="#">NOI 10-landscape</a>	dp	5		[16]			2
<a href="#">infoarena panza</a>	dp, queue	5	<a href="#">Sol</a>	[16]			1
<a href="#">Baltic 08-Elections</a>	dp, greedy	5	<a href="#">Editorial</a>	[16]			1
<a href="#">COCI 08-Setnja</a>	dp, tree, bignum, memory compression	5	<a href="#">Editorial</a>	[16]			1
<a href="#">NOI 07-street</a>	dp	5	<a href="#">Editorial</a>	[16]			1
<a href="#">NOI 08-housing</a>	dp	5	<a href="#">Editorial</a>	[16]			1
<a href="#">NOI 15-askonegetonefree</a>	dp	5	<a href="#">Editorial</a>	[16]			1
<a href="#">Dmoj City_Game</a>	dp	5		[16]			1
<a href="#">info1cup 18-maxcomp</a>	dp	5		[16]			1
<a href="#">USACO 19mar-snakes-gold</a>	dp	5		[16]			1
<a href="#">Baltic 06-Jump</a>	<del>dp, bignum, standard</del>	5	<a href="#">Editorial</a>	[16]			
<a href="#">NOI 16-unlucky_floors</a>	dp	5	<a href="#">Editorial</a>	[16]			
<a href="#">POI 09-Inspector</a>	dp	5	<a href="#">Editorial</a>	[16]			
<a href="#">POI 11-Difference</a>	dp, max sum, strings, [POI11_roz, POI XVIII-roz]	5	<a href="#">Editorial</a>	[16]			
<a href="#">POI 13-luk</a>	dp, math	5	<a href="#">Editorial</a>	[16]			
<a href="#">POI 13-mor</a>	dp	5	<a href="#">Editorial</a>	[16]			
<a href="#">JOI 14-IOIManju</a>	dp, [small code], [JAPANESE]	5		[16]			
<a href="#">NOIMOCK 15-battleship</a>	dp	5		[16]			
<a href="#">infoarena cartite</a>	bfs, euler cycles, implementation	5	<a href="#">Sol</a>	[2]			1
<a href="#">COCI 08-Kruska</a>	bf, cycle, pidgeon hole	5	<a href="#">Editorial</a>	[2]			1
<a href="#">COCI 07-Lektira</a>	bf	5	<a href="#">Editorial</a>	[2]			1
<a href="#">COCI 20-nivelle</a>	bf, [todo link]	5		[2]			1
<a href="#">COCI 08-Skakavac</a>	todo	5	<a href="#">Editorial</a>	[222]		1	1
<a href="#">COCI 09-Kletva</a>	todo	5	<a href="#">Editorial</a>	[222]			1
<a href="#">COCI 09-Bakice</a>	todo	5	<a href="#">Editorial</a>	[222]			1
<a href="#">COCI 14-Zgodan</a>	todo	5	<a href="#">Editorial</a>	[222]			1
<a href="#">NOI 16-pandaski</a>	todo	5	<a href="#">Editorial</a>	[222]			1
<a href="#">CCO 07-Cows</a>	todo	5		[222]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">CEOI 02-NRook</a>	todo, [not in actual contest]	5		[222]			1
<a href="#">COCI 09-Iks</a>	todo	5		[222]			1
<a href="#">COCI 20-skandi</a>	todo	5		[222]			1
<a href="#">COCI 20-trener</a>	todo	5		[222]			1
<a href="#">COI 09-Hrastovi</a>	todo	5	<a href="#">Editorial</a>	[222]			
<a href="#">COI 08-Tablica</a>	todo	5	<a href="#">Editorial</a>	[222]			
<a href="#">POI 12-Vouchers</a>	todo	5	<a href="#">Editorial</a>	[222]			
<a href="#">MCO 15-bitcoin</a>	todo	5	<a href="#">Sol No Edit</a>	[222]			
<a href="#">JOISC 14-Bus</a>	todo, [JAPANESE]	5		[222]			
<a href="#">JOISC 14-Straps</a>	todo, [JAPANESE]	5		[222]			
<a href="#">JOISC 14-Vegetable</a>	todo, [JAPANESE]	5		[222]			
<a href="#">JOISC 15-Logo</a>	todo, [JAPANESE]	5		[222]			
<a href="#">CEOI 17-Palindromic</a>	greedy, hashing	5		[32]		1	5
<a href="#">CEOI 17-sure</a>	greedy or ternary search, [editorial]	5	<a href="#">Sol</a>	[32]			4
<a href="#">APIO 07-MOBILE2</a>	greedy or d&c	5	<a href="#">Sol</a>	[32]			3
<a href="#">infoarena danger</a>	greedy, constructive algorithm	5	<a href="#">Sol</a>	[32]			1
<a href="#">Baltic 07-Sequence</a>	greedy	5	<a href="#">Sol</a>	[32]			1
<a href="#">COCI 17-hokej</a>	greedy, matrix, [https://ideone.com/3V5rzT]	5	<a href="#">Editorial</a>	[32]			1
<a href="#">Baltic 05-Magic</a>	greedy, parentheses or dp	5	<a href="#">Sol</a>	[32]			1
<a href="#">POI 05-ToyCars</a>	greedy, [=IOI 12-Supper]	5	<a href="#">Editorial</a>	[32]			1
<a href="#">POI 14-Bricks</a>	greedy, sorting	5	<a href="#">Sl</a>	[32]			1
<a href="#">ROUSelection 18-shampoo_exchange</a>	greedy	5		[32]			
<a href="#">Baltic 09-Rectangle</a>	geometry, rectangles	5	<a href="#">Sol</a>	[37]			1
<a href="#">POI 08-Mirror</a>	geometry	5	<a href="#">Editorial</a>	[37]			1
<a href="#">IOI 03-boundary</a>	geometry, angles, [close to soring in convex hull]	5	<a href="#">Editorial</a>	[37]			
<a href="#">BalticWarmup 17-Toast</a>	geometry, circles, [cosine rule]	5	<a href="#">Sol</a>	[38]			4
<a href="#">DMOPC 15-LeleiaandContest</a>	datastructures, math	5		[4]			2
<a href="#">infoarena troll</a>	datastructures, dp, [classical]	5	<a href="#">Sol</a>	[4]			1
<a href="#">MCO 16-cablecar</a>	datastructures, ad-hoc	5	<a href="#">Editorial</a>	[4]			
<a href="#">CCC 15-Convex_Hull</a>	graph	5		[46]			1
<a href="#">DMOPC 14-ExamDelay</a>	graph	5		[46]			1
<a href="#">DMPG 15-ApplesOranges</a>	graph	5		[46]			1
<a href="#">IOI 97-Mars</a>	graph, sp	5	<a href="#">Editorial</a>	[46]			
<a href="#">POI 12-Distance</a>	graph	5	<a href="#">Editorial</a>	[46]			
<a href="#">NOI 09-lazycat</a>	graph, bfs, dp, [https://ideone.com/Aw2JQq]	5	<a href="#">Editorial</a>	[48]			1
<a href="#">NOI 12-pancake</a>	graph, bfs or dp, [avoid, Pancake sorting, hard to guess limit in contest without trial/er	5	<a href="#">Editorial</a>	[48]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">EOI 19-d2-B</a>	graph, bfs, grid compress	5		[48]			1
<a href="#">IOIQ 18-r1-A</a>	backtrack, binary search	5	<a href="#">Sol</a>	[5]			2
<a href="#">Baltic 13-tracks</a>	graph, dfs, bfs, floodfill	5	<a href="#">Sol</a>	[50]			7
<a href="#">POI 11-ins</a>	graph, dfs, tree center, bfs or topological sort	5	<a href="#">Sol</a>	[50]			1
<a href="#">MCO 16-penghulu</a>	graph, dfs, tree, queries, [https://ideone.com/g7VF8C]	5	<a href="#">Editorial</a>	[50]			1
<a href="#">NOI 12-forensic</a>	graph, dfs, [No local submissions]	5	<a href="#">Editorial</a>	[50]			
<a href="#">POI 16-Transmit</a>	graph, dfs, impl	5	<a href="#">Editorial</a>	[50]			
<a href="#">infoarena pesapotecarari</a>	graph, dijkstra, primes	5	<a href="#">Sol</a>	[52]			1
<a href="#">NOI 13-ferries</a>	graph, dijkstra	5		[52]			1
<a href="#">POI 04-Competition</a>	graph, dijkstra, cycle, impl	5	<a href="#">Editorial</a>	[52]			
<a href="#">MCO 16-relayrace</a>	graph, dijkstra	5	<a href="#">Editorial</a>	[52]			
<a href="#">JOI 13-ModernMansion</a>	graph, dijkstra	5		[52]			
<a href="#">infoarena secvmax</a>	graph, dsu , [Romanian txt]	5	<a href="#">Sol</a>	[53]			1
<a href="#">POI 07-Offices</a>	graph, dsu	5	<a href="#">Editorial</a>	[53]			1
<a href="#">NOI 16-rock_climbing</a>	graph, max-flow, bipartite match	5	<a href="#">Editorial</a>	[58]			
<a href="#">COCI 07-Kuhar</a>	math, binary search	5	<a href="#">Editorial</a>	[68]			2
<a href="#">IOI 05-mean</a>	math, observation	5	<a href="#">Editorial</a>	[68]			2
<a href="#">NOI 15-radioactive</a>	math	5	<a href="#">Editorial</a>	[68]			
<a href="#">CEOI 10-PIN</a>	math, inclusion-exclusion, bitmasks	5	<a href="#">Sol</a>	[86]			1
<a href="#">IOIQ 19-d2-A</a>	binary search	5	<a href="#">Sol</a>	[9]			3
<a href="#">IOIQ 19-d1-A</a>	binary search, two pointers	5		[9]			2
<a href="#">CEOI 03-Register [77]</a>	math, matrix, gaussian elimination, xor	5	<a href="#">Editorial</a>	[90]			
<a href="#">Dmoj NextPrimeHard</a>	math, sieve, [Miller–Rabin primality test]	5		[93]			2
<a href="#">POI 07-Queries</a>	math, sieve, coprimes, LIS	5	<a href="#">Editorial</a>	[93]			
<a href="#">POI 10-Divisor</a>	math, sieve, Miller–Rabin test, impl	5	<a href="#">Editorial</a>	[93]			
<a href="#">NOI 09-invest</a>	dp, binary search, [https://github.com/Rockbet/Problems/blob/master/NOI/2007/Hole.]	4.75	<a href="#">Editorial</a>	[16]	p3		1
<a href="#">COCI 06-Bicikli</a>	graph, scc or dp, dfs	4.5	<a href="#">Sol</a>	[61]	p3 v2		3
<a href="#">COCI 13-Organizator</a>	ad-hoc, sieve-like	4.5	<a href="#">Editorial</a>	[1]	p3		3
<a href="#">COCI 06-Zbrka</a>	dp	4.5	<a href="#">Editorial</a>	[16]	p3	1	3
<a href="#">COCI 06-Bond</a>	dp, dp_bitmasks, [https://pastebin.com/2LyrBGjz]	4.5	<a href="#">Editorial</a>	[24]	p3		2
<a href="#">Baltic 16-bosses</a>	graph, trees, dfs	4.5	<a href="#">Sol</a>	[46]	p3		12
<a href="#">NOI 07-hole</a>	binary search or dp	4.5	<a href="#">Sol</a>	[9]	p3		3
<a href="#">COCI 13-Ratar</a>	impl, matrix, preprocessing	4.5	<a href="#">Editorial</a>	[109]	p2		1
<a href="#">SNSS 18-R5-A</a>	dp	4.5	<a href="#">Sol</a>	[16]	p2		1
<a href="#">ROJS 17-set_subtraction</a>	greedy	4.5		[32]	p2		1
<a href="#">NOI 13-diesel</a>	graph, dijskra or bfs, [ignore subtask 5/6 in evaluation]	4.5	<a href="#">Sol</a>	[46]	p2		2



Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COI 08-Reljef</a>	graph, dfs	4.5	<a href="#">Editorial</a>	[50]	p2		1
<a href="#">POI 05-Cash</a>	binary search	4.5	<a href="#">Sol</a>	[9]	p2		1
<a href="#">infoarena bile6</a>	ad-hoc, constructive, [Romanian txt]	4.5	<a href="#">Sol</a>	[1]			1
<a href="#">COCI 19-preokret</a>	ad-hoc	4.5		[1]			
<a href="#">EOIQ 18-r2-A</a>	impl	4.5		[109]			1
<a href="#">IZhO 13-Trading</a>	segment tree, sweep, arithmetic progression	4.5	<a href="#">Sol</a>	[13]			3
<a href="#">infoarena nrsec</a>	bit, binary search	4.5	<a href="#">Sol</a>	[15]			1
<a href="#">IOI 01-mobile</a>	bit, 2d bit	4.5	<a href="#">Editorial</a>	[15]			1
<a href="#">Baltic 05-Ancient</a>	dp, [cases]	4.5	<a href="#">Editorial</a>	[16]			1
<a href="#">JOI 16-Oranges</a>	dp, [JAPANESE]	4.5	<a href="#">AC</a>	[16]			1
<a href="#">infoarena tablou</a>	dp, prefix sums	4.5	<a href="#">Sol</a>	[16]			1
<a href="#">USACO 12nov-bbreeds-gold</a>	dp	4.5		[16]			1
<a href="#">NOIMOCK 15-toblerone</a>	dp	4.5		[16]			
<a href="#">COCI 06-Tenis</a>	todo	4.5	<a href="#">Editorial</a>	[222]			2
<a href="#">COCI 08-Jez</a>	todo	4.5	<a href="#">Editorial</a>	[222]		1	1
<a href="#">COCI 08-Cuskija</a>	todo	4.5	<a href="#">Editorial</a>	[222]			1
<a href="#">COCI 06-Liga</a>	todo	4.5	<a href="#">Editorial</a>	[222]			1
<a href="#">EOI 18-d1-B</a>	greedy. sorting	4.5		[32]		1	2
<a href="#">infoarena copii2</a>	greedy, divide and conquer, [Romanian txt]	4.5	<a href="#">Sol</a>	[32]			1
<a href="#">Infoarena sir42</a>	greedy, [text summry in sol]	4.5	<a href="#">Sol</a>	[32]			1
<a href="#">infoarena incurcatura</a>	graphs, data structures, [Romanian txt]	4.5	<a href="#">Sol</a>	[46]			1
<a href="#">infoarena abx</a>	math, [=CF955-C]	4.5	<a href="#">Sol</a>	[68]			1
<a href="#">MCO 14-random</a>	math, seive	4.5	<a href="#">Sol No Edit</a>	[68]			
<a href="#">infoarena color</a>	math, combinatorics	4.5	<a href="#">Sol</a>	[82]			1
<a href="#">COCI 18-karte</a>	greedy, ad-hoc, impl	4	<a href="#">Sol</a>	[32]	p3 v1		9
<a href="#">COCI 17-igra</a>	ad-hoc, lexi	4	<a href="#">Editorial</a>	[1]	p3		1
<a href="#">NOI 19-lasers</a>	ad-hoc	4		[1]	p3		1
<a href="#">COCI 14-studentsko</a>	dp, lis or greedy	4	<a href="#">Sol</a>	[16]	p3		4
<a href="#">POI 11-Temp</a>	datastructures, binary search, impl, [POI11_tem]	4	<a href="#">Sol</a>	[4]	p3	1	2
<a href="#">COCI 13-ladice</a>	graph, dsu, cycles	4	<a href="#">Editorial</a>	[53]	p3		2
<a href="#">infoarena cate3cifre</a>	math, impl	4	<a href="#">Sol</a>	[68]	p3		1
<a href="#">IOI 17-coins</a>	math, xor	4		[68]	p3		1
<a href="#">COCI 17-uzastopni</a>	math, summations, ad-hoc or binary search	4	<a href="#">sol</a>	[77]	p3		4
<a href="#">IOIPractice 19-cycle</a>	binary search, interactive	4	<a href="#">Sol</a>	[9]	p3		6
<a href="#">COCI 14-Mravi</a>	ad-hoc	4	<a href="#">Editorial</a>	[1]	p2		2
<a href="#">NOI 08-gecko</a>	ad-hoc	4	<a href="#">Editorial</a>	[1]	p2		1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">IPSC 18-H1</a>	ad-hoc, interactive	4		[1]	p2		1
<a href="#">IPSC 18-J1</a>	ad-hoc, constructive	4		[1]	p2		1
<a href="#">Balkan 05-SailingRace</a>	dp	4	<a href="#">Sol (no edit)</a>	[16]	p2		1
<a href="#">CEOI 12-Jobs</a>	greedy, datastructures, impl	4	<a href="#">Sol</a>	[32]	p2		8
<a href="#">COCI 17-lozinke</a>	greedy, datastructures	4	<a href="#">Sol</a>	[32]	p2		5
<a href="#">COCI 07-Dejavu</a>	geometry	4	<a href="#">Editorial</a>	[37]	p2		1
<a href="#">NOI 08-lvm</a>	datastructures, impl, [easy idea]	4	<a href="#">Editorial</a>	[4]	p2		1
<a href="#">NOI 10-card</a>	datastructures, impl, [easy idea]	4	<a href="#">Editorial</a>	[4]	p2		1
<a href="#">DWITE 11-CubeWorld</a>	graph	4		[46]	p2		1
<a href="#">COCI 06-Slikar</a>	graph, bfs	4	<a href="#">Editorial</a>	[48]	p2		2
<a href="#">COCI 07-Jabuke</a>	math	4	<a href="#">Editorial</a>	[68]	p2		1
<a href="#">COCI 09-Dobra</a>	math, combinatorics, bf	4	<a href="#">Editorial</a>	[82]	p2		1
<a href="#">IOI 06-writing</a>	ad-hoc, hashing	4	<a href="#">Editorial</a>	[1]			2
<a href="#">COCI 14-Kriza</a>	ad-hoc	4	<a href="#">Editorial</a>	[1]			1
<a href="#">POI 10-Test</a>	ad-hoc	4	<a href="#">Editorial</a>	[1]			
<a href="#">IOI 17-cup</a>	ad-hoc	4		[1]			
<a href="#">EOIQ 18-r1-A</a>	impl	4		[109]			3
<a href="#">IOIQ 19-r2-C</a>	impl	4		[109]			2
<a href="#">infoarena cmmmp</a>	impl, math	4	<a href="#">Sol</a>	[109]			1
<a href="#">EOIQ 18-r1-C</a>	impl	4		[109]			1
<a href="#">IOIQ 18-r1-B</a>	impl	4		[109]			1
<a href="#">Infoarena lautari [78]</a>	two pointers, impl	4	<a href="#">Sol</a>	[110]			1
<a href="#">JOI 20-JJOI2</a>	two pointers, [JOI20_ho_t2]	4	<a href="#">Sol</a>	[110]			1
<a href="#">EOIQ 18-r2-B</a>	two pointers, map	4		[110]			1
<a href="#">NOI 08-rank</a>	graph, dfs, topological sort, [https://github.com/ZeyadKhattab/Competitive-Programm	4	<a href="#">Editorial</a>	[119]			1
<a href="#">IOI 07-miners</a>	dp, [basic, leave or take]	4	<a href="#">Editorial</a>	[16]			9
<a href="#">COCI 19-slicice</a>	dp	4	<a href="#">Sol</a>	[16]			2
<a href="#">COCI 18-mate</a>	dp	4		[16]			2
<a href="#">IOIQ 19-r1-C</a>	dp, lis	4		[16]			2
<a href="#">NOI 10-poke_company</a>	dp or greedy	4	<a href="#">Editorial</a>	[16]			1
<a href="#">NOI 18-journey</a>	dp, graph	4	<a href="#">Editorial</a>	[16]			1
<a href="#">CCO 18-GeeseVsHawks</a>	dp	4	<a href="#">Sol</a>	[16]			1
<a href="#">NOI 12-walking</a>	dp, lcs, [np-hard-special-case-reduce]	4	<a href="#">Editorial</a>	[16]			1
<a href="#">JOI 13-TakeIOITrain</a>	dp, impl, [JAPANESE]	4		[16]			
<a href="#">JOI 19-Bitaro</a>	bf, [JOI19_ho_t1]	4		[2]			8
<a href="#">COCI 06-Sjecista</a>	todo	4	<a href="#">Editorial</a>	[222]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">POI 12-Rendezvous</a>	todo	4	<a href="#">Editorial</a>	[222]			
<a href="#">COI 14-nizovi</a>	todo, interaction	4	<a href="#">Editorial</a>	[222]			
<a href="#">JOISC 14-JOIOJI</a>	todo, [JAPANESE]	4		[222]			
<a href="#">COCI 16-kronican</a>	dp, dp_bitmasks	4	<a href="#">Editorial</a>	[24]		1	5
<a href="#">infoarena jsched</a>	greedy, [Romanian txt]	4	<a href="#">Sol</a>	[32]			1
<a href="#">infoarena kcover</a>	greedy, sortings, [Romanian txt]	4	<a href="#">Sol</a>	[32]			1
<a href="#">COCI 13-Lopov</a>	greedy, sorting, multiset	4	<a href="#">Editorial</a>	[32]			1
<a href="#">POI 04-Spies</a>	greedy, graph	4	<a href="#">Editorial</a>	[32]			
<a href="#">NOIMOCK 15-marbles</a>	greedy	4		[32]			
<a href="#">infoarena heavymetal</a>	datastructures, greedy, [Romanian txt]	4	<a href="#">Sol</a>	[4]			1
<a href="#">NOIMOCK 15-lilypads</a>	datastructures, graph	4		[4]			
<a href="#">Info1Cup 19-Subway</a>	graph, trees, constructive algorithms, [where OJ]	4	<a href="#">Sol</a>	[46]			1
<a href="#">JOI 15-RailroadTrip</a>	graph, [JAPANESE]	4	<a href="#">Sol</a>	[46]			1
<a href="#">POI 08-Blocks</a>	graph, tree, datastructures	4	<a href="#">Editorial</a>	[46]			
<a href="#">POI 08-Toll</a>	graph, bfs	4	<a href="#">Editorial</a>	[48]			
<a href="#">COCI 20-politicari</a>	graph, dfs, todo link	4	<a href="#">Sol</a>	[50]			1
<a href="#">COCI 18-alkemija</a>	graph, dfs	4		[50]			1
<a href="#">COCI 07-George</a>	graph, dijkstra	4	<a href="#">Editorial</a>	[52]			1
<a href="#">MCO 15-trains</a>	graph, dijkstra	4	<a href="#">Sol No Edit</a>	[52]			
<a href="#">JOI 13-illumination</a>	graph, dijkstra, [JAPANESE]	4		[52]			
<a href="#">COCI 09-svemir</a>	graph, mst	4	<a href="#">Editorial</a>	[60]			1
<a href="#">NOI 08-nprime</a>	math, primes	4	<a href="#">Editorial</a>	[68]			1
<a href="#">NOI 11-sequence</a>	math, number theory, [unclear text?]	4	<a href="#">Editorial</a>	[68]			1
<a href="#">EOI 19-d2-A</a>	math	4		[68]			1
<a href="#">COCI 09-Genijalac</a>	math, gcd, impl	4	<a href="#">Editorial</a>	[73]			1
<a href="#">POI 05-Knights</a>	math, gcd, [pascal code]	4	<a href="#">Editorial</a>	[73]			
<a href="#">IOI 09-mecho</a>	binary search, bfs	4	<a href="#">Sol</a>	[9]		1	5
<a href="#">COCI 20-spiderman</a>	math, sieve, [todo link]	4		[93]			1
<a href="#">NOI 18-lightningrod</a>	greedy, stack	3.5	<a href="#">Editorial</a>	[32]	p2		2
<a href="#">COCI 15-baloni</a>	greedy, set, [strict tl, multiset TLE]	3.5	<a href="#">Sol</a>	[32]	p2		2
<a href="#">infoarena munte4</a>	ad-hoc, sliding window	3.5	<a href="#">Sol</a>	[1]			1
<a href="#">COCI 15-Han</a>	ad-hoc, impl	3.5		[1]			1
<a href="#">infoarena pm2</a>	graph, dfs, topological sort, bfs	3.5	<a href="#">Sol</a>	[119]			1
<a href="#">infoarena cerc3</a>	dp, sorting	3.5	<a href="#">Sol</a>	[16]			1
<a href="#">infoarena marceland</a>	bfs, implementation	3.5	<a href="#">Sol</a>	[2]			1
<a href="#">COCI 07-Nikola</a>	todo	3.5	<a href="#">Editorial</a>	[222]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 14-Coci</a>	todo	3.5	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 14-Silueta</a>	todo	3.5	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 14-Kratki</a>	todo	3.5	<a href="#">Editorial</a>	[222]			
<a href="#">EOIQ 18-r1-B</a>	greedy	3.5		[32]			2
<a href="#">COCI 17-unija</a>	geometry, rectangles, inversion	3.5	<a href="#">Editorial</a>	[37]			2
<a href="#">infoarena rfinv</a>	graphs, shortest paths, [Romanian txt]	3.5	<a href="#">Sol</a>	[46]			1
<a href="#">COCI 19-zamjena</a>	graph, dsu	3.5		[53]			2
<a href="#">EOI 18-d2-A</a>	math	3.5		[68]			1
<a href="#">COCI 19-cipele</a>	binary search, greedy	3.5		[9]			2
<a href="#">Baltic 11-Plagarism</a>	binary search, datastructures	3.5	<a href="#">Editorial</a>	[9]			1
<a href="#">infoarena album2</a>	impl	3	<a href="#">Sol</a>	[109]	p3		1
<a href="#">POI 05-Banks</a>	graph, dsu	3	<a href="#">Editorial</a> [75]	[53]	p3		2
<a href="#">COCI 13-sumo</a>	ad-hoc or bipartite match, binary search	3	<a href="#">Editorial</a>	[1]	p2		1
<a href="#">COCI 07-Srednji</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]	p2		1
<a href="#">COCI 14-Zabava</a>	dp, math	3	<a href="#">Editorial</a>	[16]	p2		1
<a href="#">NOI 18-collectmushrooms</a>	ad-hoc, prefix sum	3	<a href="#">Editorial</a>	[1]			2
<a href="#">COCI 17-zigzag</a>	ad-hoc, trivial	3		[1]			2
<a href="#">JOI 20-Neckties</a>	ad-hoc, prefix_sums, sorting [JOI20_ho_t1]	3	<a href="#">sol</a>	[1]			1
<a href="#">Baltic 07-Sound</a>	ad-hoc, sliding window, datastructures	3	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 16-pohlepko</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 06-Firefly</a>	ad-hoc, prefix sum	3	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 06-Tetris</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 18-timovi</a>	ad-hoc, impl	3		[1]			1
<a href="#">Datatähti Open19-B</a>	ad-hoc, prefix sum	3		[1]			1
<a href="#">COCI 09-Dosadan</a>	ad-hoc, hex	3	<a href="#">Editorial</a>	[1]			
<a href="#">POI 06-Disks</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]			
<a href="#">POI 08-Postering</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]			
<a href="#">POI 09-Elephants</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]			
<a href="#">POI 09-Pebbles</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]			
<a href="#">POI 10-Guilds</a>	ad-hoc	3	<a href="#">Editorial</a>	[1]			
<a href="#">IOI 09-garage</a>	impl	3	<a href="#">Editorial</a>	[109]			8
<a href="#">IOIQ 19-r1-A</a>	impl	3		[109]			2
<a href="#">IOIQ 19-r2-B</a>	impl	3		[109]			2
<a href="#">COCI 17-tetris</a>	impl	3		[109]			1
<a href="#">COCI 16-nizin</a>	two pointers	3	<a href="#">Editorial</a>	[110]			3
<a href="#">Info1Cup 19-Mean</a>	dp, [where OJ]	3	<a href="#">Sol</a>	[16]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 14-acm</a>	dp	3	<a href="#">Editorial</a>	[16]			
<a href="#">COCI 14-Niko</a>	bf	3	<a href="#">Editorial</a>	[2]		1	2
<a href="#">IOI 16-laugh</a>	bf	3	<a href="#">Editorial</a>	[2]			2
<a href="#">Baltic 11-Ice Cream</a>	bf, impl	3	<a href="#">Editorial</a>	[2]			1
<a href="#">COCI 08-Mravojed</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Skocimis</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Perket</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 14-Psenica</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 14-Meteor</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">IOI 01-BinaryCodes</a>	todo, backup task	3	<a href="#">Editorial</a>	[222]			
<a href="#">POI 12-Letter</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 06-Okviri</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 06-Maraton</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 06-Bard</a>	todo	3	<a href="#">Editorial</a>	[222]			
<a href="#">JOI 18-stove</a>	greedy	3	<a href="#">Sol</a>	[32]			8
<a href="#">Infoarena calorifer</a>	greedy, sorting, math, [text summry in sol]	3	<a href="#">Sol</a>	[32]			1
<a href="#">NOI 11-change</a>	greedy, bf	3	<a href="#">Editorial</a>	[32]			1
<a href="#">BalticPractice 18-NinetyNinePractice</a>	greedy, number theory, [test interactive problem]	3		[32]			1
<a href="#">COCI 17-programiranje</a>	datastructures	3		[4]			2
<a href="#">COCI 12-razlika</a>	datastructures, sliding window	3	<a href="#">Editorial</a>	[4]			
<a href="#">POI 07-Symmetry</a>	geometry, polygon, palindrome	3	<a href="#">Editorial</a>	[40]			
<a href="#">COCI 12-hipercijevi</a>	graph, bfs	3	<a href="#">Editorial</a>	[48]			
<a href="#">COCI 16-jetpack</a>	graph, dfs	3	<a href="#">Editorial</a>	[50]			1
<a href="#">NOI 10-sail</a>	graph, dijkstra	3	<a href="#">Editorial</a>	[52]			
<a href="#">MCO 17-TravellingSalesman</a>	graph, dijkstra	3	<a href="#">Editorial</a>	[52]			
<a href="#">CCC 13-Factor_Solitaire</a>	math	3		[68]			1
<a href="#">COCI 16-tavan</a>	math, base conversion	3	<a href="#">Editorial</a>	[68]			
<a href="#">COCI 17-savrsen</a>	math, sieve	3	<a href="#">Editorial</a>	[93]			
<a href="#">COCI 17-cezar</a>	ad-hoc, trivial	2.5		[1]			3
<a href="#">COCI 12-sahovnica</a>	ad-hoc, impl	2.5	<a href="#">Editorial</a>	[1]			1
<a href="#">Info1Cup 19-Treasure</a>	impl, string, stack, [where OJ]	2.5	<a href="#">Sol</a>	[109]			1
<a href="#">COCI 19-nadan</a>	ad-hoc, trivial, [COCI18_nadan]	2		[1]			2
<a href="#">COCI 08-Cross</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 08-Rot</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 09-Kajak</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 12-sume</a>	ad-hoc, math	2	<a href="#">Editorial</a>	[1]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">NOI 08-4sum</a>	ad-hoc	2	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 07-Tajna</a>	ad-hoc	2	<a href="#">Editorial</a>	[1]			1
<a href="#">COCI 17-izbori</a>	ad-hoc, trivial	2		[1]			1
<a href="#">COCI 17-rasvjeta</a>	ad-hoc, trivial	2		[1]			1
<a href="#">COCI 08-Jabuka</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 08-Jagoda</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 08-Ljesnjak</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 08-Bazen</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 08-Nered</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-Herman</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-ABC</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-npuzzle</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-Prsteni</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-Skener</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-Natrij</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-Magija</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Peg</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Prva</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Vauvau</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Veci</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Parking</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Semafori</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Platforme</a>	ad-hoc, trivial	2	<a href="#">Editorial</a>	[1]			
<a href="#">MCO 17-CableCars</a>	ad-hoc	2	<a href="#">Editorial</a>	[1]			
<a href="#">MCO 15-honey</a>	ad-hoc	2	<a href="#">Sol No Edit</a>	[1]			
<a href="#">COCI 09-Kutevi</a>	ad-hoc, trivial	2		[1]			
<a href="#">IOI 10-cluedo</a>	impl	2	<a href="#">Editorial</a>	[109]			4
<a href="#">IOI 10-memory</a>	impl	2	<a href="#">Editorial</a>	[109]			2
<a href="#">COCI 09-Rimski</a>	impl	2	<a href="#">Editorial</a>	[109]			1
<a href="#">COCI 09-Razgovori</a>	impl, [boring]	2	<a href="#">Editorial</a>	[109]			1
<a href="#">COCI 09-Program</a>	impl	2	<a href="#">Editorial</a>	[109]			1
<a href="#">IOI 00-palindrome</a>	dp	2	<a href="#">Editorial</a>	[16]			
<a href="#">COCI 20-emacs</a>	bf, todo link	2	<a href="#">Sol</a>	[2]			1
<a href="#">CCCMock 19-PusheenPuzzlePresent</a>	bf	2		[2]			1
<a href="#">DatatahtiOpen 19-A</a>	bf, impl	2		[2]			1
<a href="#">COCI 09-Natjecanje</a>	todo	2	<a href="#">Editorial</a>	[222]			1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 20-birmingham</a>	todo	2		[222]			1
<a href="#">COI 08-Cijevi</a>	todo	2	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 14-Prisprema</a>	todo	2	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 14-Zmija</a>	todo	2	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 15-Molekule</a>	todo	2	<a href="#">Editorial</a>	[222]			
<a href="#">MCO 14-passport</a>	todo	2	<a href="#">Sol No Edit</a>	[222]			
<a href="#">COCI 12-lanci</a>	greedy	2	<a href="#">Editorial</a>	[32]			
<a href="#">IOIPractice 14-family-ioi14</a>	geometry	2	<a href="#">Sol</a>	[37]			1
<a href="#">COCI 14-utrka</a>	datastructures	2		[4]			3
<a href="#">COCI 06-Kolone</a>	datastructures	2	<a href="#">Editorial</a>	[4]			1
<a href="#">COCI 12-malcolm</a>	geometry, sweep line	2	<a href="#">Editorial</a>	[44]			
<a href="#">NOI 10-weather</a>	graph	2	<a href="#">Editorial</a>	[46]			
<a href="#">COCI 18-birokracija</a>	graph, dfs	2		[50]			4
<a href="#">COCI 06-Trojke</a>	math	2	<a href="#">Editorial</a>	[68]			1
<a href="#">CCCMock 19-PusheensReportCard</a>	math	2		[68]			1
<a href="#">COCI 17-turnir</a>	math, binary search	2	<a href="#">Editorial</a>	[68]			
<a href="#">COCI 12-ljubomora</a>	binary search	2	<a href="#">Editorial</a>	[9]			
<a href="#">COCI 18-olivander</a>	ad-hoc, trivial	1		[1]			2
<a href="#">IOI 16-reverse</a>	ad-hoc, trivial	1		[1]			2
<a href="#">COCI 13-misa</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			1
<a href="#">NOI 09-xmas</a>	ad-hoc	1	<a href="#">Editorial</a>	[1]			1
<a href="#">NOI 11-paint</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			1
<a href="#">MCO 15-badminton</a>	ad-hoc, trivial	1	<a href="#">Sol No Edit</a>	[1]			1
<a href="#">COCI 14-Dom</a>	ad-hoc, dfs	1		[1]			1
<a href="#">COCI 14-Klopka</a>	ad-hoc	1		[1]			1
<a href="#">COCI 14-prosjeck</a>	ad-hoc, trivial	1		[1]			1
<a href="#">COCI 15-esej</a>	ad-hoc	1		[1]			1
<a href="#">COCI 17-aron</a>	ad-hoc, trivial	1		[1]			1
<a href="#">COCI 17-bridz</a>	ad-hoc, trivial	1		[1]			1
<a href="#">COCI 17-kosnja</a>	ad-hoc, trivial	1		[1]			1
<a href="#">COCI 17-tuna</a>	ad-hoc, trivial	1		[1]			1
<a href="#">COCI 18-spirale</a>	ad-hoc, trivial	1		[1]			1
<a href="#">IZhO 11-triangle</a>	ad-hoc, trivial	1		[1]			1
<a href="#">COCI 08-Pet</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COI 08-Majstor</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COI 08-Nop</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			



Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 12-f7</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 14-Paprika</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 14-Teta</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 16-go</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 16-imena</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 17-kartomat</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 17-pareto</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 17-telefoni</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">NOI 07-jawbreak</a>	ad-hoc	1	<a href="#">Editorial</a>	[1]			
<a href="#">NOI 07-gift</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-Modulo</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 06-R2</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Bijeke</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 07-Tri</a>	ad-hoc, trivial	1	<a href="#">Editorial</a>	[1]			
<a href="#">COCI 14-Cesta</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 14-mobitel</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 14-Piramida</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 14-Strojopis</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 14-Traktor</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 15-akcija</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 15-Deathstar</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 15-geppetto</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 15-marko</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 15-pot</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 17-hindeks</a>	ad-hoc, trivial	1		[1]			
<a href="#">NOI Selection 11-bunnyhop</a>	ad-hoc, trivial	1		[1]			
<a href="#">COCI 16-tarifa</a>	impl	1		[109]			4
<a href="#">COCI 13-Trener</a>	impl, stl	1	<a href="#">Editorial</a>	[109]			2
<a href="#">COCI 15-Yoda</a>	impl	1		[109]			1
<a href="#">COCI 18-magnus</a>	impl, math	1		[109]			1
<a href="#">COCI 18-pismo</a>	impl, math	1		[109]			1
<a href="#">COCI 19-elder</a>	impl, math	1		[109]			1
<a href="#">COCI 19-konj</a>	impl, math	1		[109]			1
<a href="#">COCI 19-lun</a>	impl, math	1		[109]			1
<a href="#">IOI 09-poi</a>	bf, impl	1	<a href="#">Sol</a>	[2]			4
<a href="#">COCI 17-baza</a>	bf	1		[2]			2

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">COCI 14-Funghi</a>	bf	1		[2]			1
<a href="#">COCI 15-karte</a>	bf	1		[2]			1
<a href="#">COCI 20-datum</a>	todo	1		[222]			1
<a href="#">COCI 08-Ptice</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Kornislav</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Reseto</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Kemija</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Datum</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Mjehuric</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 08-Buka</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Domino</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Faktor</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Filip</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Slatkisi</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Sort</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Autori</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Planina</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Cudoviste</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Sok</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Cokolada</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Spavanac</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 06-Patuljci</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 06-Sibice</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 06-Trik</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 06-Prase</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 07-Cetvrta</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 07-Prinova</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 07-Crme</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 07-Cetiri</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 07-Oktalni</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 07-Pascal</a>	todo	1	<a href="#">Editorial</a>	[222]			
<a href="#">COCI 09-Note</a>	todo	1		[222]			
<a href="#">NOI 16-lunchbox</a>	greedy, sorting	1	<a href="#">Editorial</a>	[32]			1
<a href="#">COCI 18-prosjeck</a>	greedy	1		[32]			1
<a href="#">NOI Selection 10-crunchy</a>	greedy, sorting	1		[32]			
<a href="#">POI 15-Trips</a>	math, matrix, matrix pow, [kth shortest path]		<a href="#">Sol</a>	[89]	p3		1

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">IOI 02-xor</a>	ad-hoc, impl, [output only]		<a href="#">Editorial</a>	[1]			1
<a href="#">POI 11-prz</a>	ad-hoc, sorting		<a href="#">Editorial</a>	[1]			
<a href="#">POI 13-ins</a>	ad-hoc, impl		<a href="#">Editorial</a>	[1]			
<a href="#">NOIPrelim 18-snail</a>	ad-hoc			[1]			
<a href="#">NOISelection 15-globalwarming2</a>	ad-hoc			[1]			
<a href="#">NOISelection 18-spotlights</a>	ad-hoc			[1]			
<a href="#">NOISelection 18-stagegames</a>	ad-hoc			[1]			
<a href="#">NOI 06-claw</a>	dp, graph			[16]			
<a href="#">NOIPrelim 18-knapsack</a>	dp			[16]			
<a href="#">NOISelection 14-sardines</a>	dp			[16]			
<a href="#">NOISelection 14-schedule</a>	dp			[16]			
<a href="#">NOISelection 15-diversity</a>	dp			[16]			
<a href="#">NOISelection 15-orchard2</a>	dp			[16]			
<a href="#">NOISelection 16-catteams</a>	dp, datastructures			[16]			
<a href="#">NOISelection 18-llis</a>	dp			[16]			
<a href="#">NOISelection 18-modules</a>	dp, greedy			[16]			
<a href="#">NOISelection 18-supperbox</a>	dp, datastructures			[16]			
<a href="#">Baltic 18-Worm</a>	bf, [short code but no one full score in contest - todo]		<a href="#">Editorial</a>	[2]			
<a href="#">NOISelection 14-anglerfish</a>	bf			[2]			
<a href="#">Baltic 06-City</a>	todo			[222]			1
<a href="#">Baltic 06-Coin</a>	todo			[222]			1
<a href="#">MWC 15-ToweringTowers</a>	todo			[222]			1
<a href="#">POI 18-Diversity</a>	todo			[222]			1
<a href="#">POI 18-Lawyers</a>	todo			[222]			1
<a href="#">Balkan 05-Couples</a>	todo			[222]			
<a href="#">Balkan 05-CPU</a>	todo			[222]			
<a href="#">Balkan 05-Requests</a>	todo			[222]			
<a href="#">Balkan 05-Tickets</a>	todo			[222]			
<a href="#">Balkan 05-WordCounting</a>	todo			[222]			
<a href="#">Balkan 09-NewBeginning</a>	todo			[222]			
<a href="#">Balkan 09-Strip</a>	todo			[222]			
<a href="#">Balkan 12-BOI_handsome</a>	todo			[222]			
<a href="#">Balkan 04-two_sequences</a>	todo			[222]			
<a href="#">Balkan 04-great_student</a>	todo			[222]			
<a href="#">POI 11-dyn</a>	todo		<a href="#">Editorial</a>	[222]			
<a href="#">POI 13-gob</a>	todo, long impl		<a href="#">Editorial</a>	[222]			

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">APIO 13-tasksauthor</a>	todo, [output only]			[222]			
<a href="#">BalticWarmup 17-BirdRescue</a>	todo			[222]			
<a href="#">BalticWarmup 17-PongTournament</a>	todo			[222]			
<a href="#">COCI 18-nlq</a>	todo			[222]			
<a href="#">COCI 18-prakticni</a>	todo			[222]			
<a href="#">COCI 19-akvizna</a>	todo			[222]			
<a href="#">COCI 19-jarvis</a>	todo			[222]			
<a href="#">COCI 19-kisik</a>	todo			[222]			
<a href="#">COCI 19-slagalica</a>	todo			[222]			
<a href="#">COCI 19-titlovi</a>	todo			[222]			
<a href="#">COCI 19-wand</a>	todo			[222]			
<a href="#">Dmoj NextPrime</a>	todo			[222]			
<a href="#">HAOI 07-idealsquare</a>	todo			[222]			
<a href="#">info1cup 17-binary</a>	todo			[222]			
<a href="#">info1cup 17-eastereggs</a>	todo			[222]			
<a href="#">info1cup 17-permutation</a>	todo			[222]			
<a href="#">info1cup 17-xorsum</a>	todo			[222]			
<a href="#">info1cup 18-balancedtree</a>	todo			[222]			
<a href="#">info1cup 18-cambridge</a>	todo			[222]			
<a href="#">info1cup 18-del13</a>	todo			[222]			
<a href="#">info1cup 18-norela</a>	todo			[222]			
<a href="#">info1cup 18-palindromes</a>	todo			[222]			
<a href="#">info1cup 18-shell</a>	todo			[222]			
<a href="#">info1cup 18-thegrade</a>	todo			[222]			
<a href="#">innopolis 18-final_A</a>	todo			[222]			
<a href="#">innopolis 18-final_B</a>	todo			[222]			
<a href="#">innopolis 18-final_C</a>	todo			[222]			
<a href="#">innopolis 18-final_D</a>	todo			[222]			
<a href="#">innopolis 18-final_E</a>	todo			[222]			
<a href="#">INOI 16-brackets_inoi</a>	todo			[222]			
<a href="#">IOIPractice 14-square</a>	todo			[222]			
<a href="#">IOIPractice 14-station</a>	todo			[222]			
<a href="#">IOIPractice 14-tile</a>	todo			[222]			
<a href="#">IOIPractice 17-notice</a>	todo, judge?			[222]			
<a href="#">IZhO 14-ufo</a>	todo			[222]			
<a href="#">JOI 14-Cutting</a>	todo, [JAPANESE]			[222]			

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">JOI 15-Ball</a>	todo, [JAPANESE]			[222]			
<a href="#">JOI 15-Rampart</a>	todo, [JAPANESE]			[222]			
<a href="#">JOI 16-Territory</a>	todo, [JAPANESE]			[222]			
<a href="#">JOI 17-rope</a>	todo			[222]			
<a href="#">JOIOC 13-disparity</a>	<del>todo</del> , NOT available			[222]			
<a href="#">JOIOC 15-coloredTiles</a>	<del>todo</del> , [output only]			[222]			
<a href="#">NOI 06-ecasino</a>	todo			[222]			
<a href="#">NOI 06-fludtown</a>	todo			[222]			
<a href="#">NOI 06-genome</a>	todo			[222]			
<a href="#">NOI 06-heng</a>	todo			[222]			
<a href="#">NOISelection 10-jungle</a>	todo			[222]			
<a href="#">NOISelection 10-trianglesum</a>	todo			[222]			
<a href="#">NOISelection 11-mantou</a>	todo			[222]			
<a href="#">NOISelection 11-message</a>	todo			[222]			
<a href="#">NOISelection 11-puzzle</a>	todo			[222]			
<a href="#">NOISelection 11-repair</a>	todo			[222]			
<a href="#">NOISelection 12-draw</a>	todo			[222]			
<a href="#">NOISelection 12-ice</a>	todo			[222]			
<a href="#">NOISelection 12-ramar</a>	todo			[222]			
<a href="#">NOISelection 15-lazycat2</a>	todo			[222]			
<a href="#">NOISelection 17-builderswand</a>	todo			[222]			
<a href="#">NOISelection 17-clipboard</a>	todo			[222]			
<a href="#">NOISelection 17-dinnerbox</a>	todo			[222]			
<a href="#">NOISelection 17-lost</a>	todo			[222]			
<a href="#">NOISelection 17-mooshroomfarm</a>	todo			[222]			
<a href="#">NOISelection 17-mushroomfarm</a>	todo			[222]			
<a href="#">NOISelection 17-redstonelamps</a>	todo			[222]			
<a href="#">NOISelection 17-runway</a>	todo			[222]			
<a href="#">NOISelection 17-trekking</a>	todo			[222]			
<a href="#">NOISelection 17-trianglecraft</a>	todo			[222]			
<a href="#">NOISelection 18-crab</a>	todo			[222]			
<a href="#">POI 14-Snake</a>	todo			[222]			
<a href="#">POI 17-Containers</a>	todo			[222]			
<a href="#">POI 17-Cook</a>	todo			[222]			
<a href="#">POI 17-Crossroads</a>	todo			[222]			
<a href="#">POI 17-Difference</a>	todo			[222]			

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">POI 17-Divisibility</a>	todo			[222]			
<a href="#">POI 17-Flappy_Bird</a>	todo			[222]			
<a href="#">POI 17-Grades</a>	todo			[222]			
<a href="#">POI 17-Midas</a>	todo			[222]			
<a href="#">POI 17-Panini</a>	todo			[222]			
<a href="#">POI 17-Sabotage</a>	todo			[222]			
<a href="#">POI 17-Sum</a>	todo			[222]			
<a href="#">POI 17-Tourist</a>	todo			[222]			
<a href="#">POI 18-Bike</a>	todo			[222]			
<a href="#">POI 18-Candy</a>	todo			[222]			
<a href="#">POI 18-Conductor</a>	todo			[222]			
<a href="#">POI 18-Fence</a>	todo			[222]			
<a href="#">POI 18-Flood</a>	todo			[222]			
<a href="#">POI 18-Numbers</a>	todo			[222]			
<a href="#">POI 18-Poetry</a>	todo			[222]			
<a href="#">POI 18-Stone</a>	todo			[222]			
<a href="#">POI 18-Subway</a>	todo			[222]			
<a href="#">POI 18-Taxis</a>	todo			[222]			
<a href="#">POI 18-Transceivers</a>	todo			[222]			
<a href="#">POI 18-Triinformathlon</a>	todo			[222]			
<a href="#">POI 11-imp</a>	greedy, [short]		<a href="#">Editorial</a>	[32]			
<a href="#">Baltic 18-Alternating</a>	greedy or ad-hoc		<a href="#">Editorial</a>	[32]			
<a href="#">NOISelection 16-catlunch</a>	greedy, datastructures			[32]			
<a href="#">POI 13-Maze</a>	geometry, [short]		<a href="#">Editorial</a>	[37]			
<a href="#">NOISelection 14-ikanbilis</a>	datastructures			[4]			
<a href="#">NOISelection 14-middlenumber</a>	datastructures			[4]			
<a href="#">NOISelection 15-rotarylock</a>	datastructures			[4]			
<a href="#">NOISelection 16-catgameshow</a>	datastructures			[4]			
<a href="#">NOISelection 16-counting</a>	datastructures			[4]			
<a href="#">JOISC 18-roadservice</a>	<del>graph, [no submit]</del>		<a href="#">sol (See re</a>	[46]			
<a href="#">POI 13-spa</a>	graph, search		<a href="#">Editorial</a>	[46]			
<a href="#">NOIPrelim 18-island</a>	graph, math			[46]			
<a href="#">NOISelection 10-chessislands</a>	graph			[46]			
<a href="#">NOISelection 11-journey</a>	graph			[46]			
<a href="#">NOISelection 14-ship</a>	graph			[46]			
<a href="#">NOISelection 16-cattown</a>	graph			[46]			

Name	Category	Level	Sol	Category ID	Importance	Can't solve	Tried to solve
<a href="#">NOISelection 16-teleporters</a>	graph			[46]			
<a href="#">NOISelection 18-rookable</a>	graph			[46]			
<a href="#">NOISelection 18-superfanclub</a>	graph			[46]			
<a href="#">IOIPractice 14-totem</a>	graph, bfs			[48]			
<a href="#">NOISelection 15-portal_st2015</a>	graph, bfs			[48]			
<a href="#">NOISelection 12-stones</a>	graph, dfs			[50]			
<a href="#">NOISelection 11-superlongnoodles</a>	graph, dijkstra, math			[52]			
<a href="#">NOISelection 12-waddlehop</a>	graph, dijkstra			[52]			
<a href="#">NOISelection 14-nemo</a>	graph, dsu			[53]			
<a href="#">NOISelection 15-sightseeing2</a>	graph, mst			[60]			
<a href="#">NOI 06-euclid</a>	math, number theory			[68]			
<a href="#">NOISelection 11-factortiles</a>	math, number theory			[68]			
<a href="#">NOISelection 15-access_code</a>	math			[68]			
<a href="#">NOISelection 16-bananafood</a>	math			[68]			
<a href="#">NOISelection 16-catnames</a>	math			[68]			
<a href="#">NOISelection 18-spiraldance</a>	math			[68]			



[1] English text: <http://apio-olympiad.org/2011/apio2011-English.pdf>

[2] correction: constraints for n is actually  $2e5$

[3] Given  $n \leq 2e5$  points and  $m \leq 1e5$  circles, find for each of the circles how many points has inside or on the circle. The surfaces covered by any pair of two circles don't have common points

[4] You are given a 3d grid where some spaces are full of stone ('N') and some are full of air ('P')  
You need to find a cuboid that is completely made up of stone, has two sides of equal length, and has the maximum value of  $4*a*b$ , where a and b are the two different length values among the sides.  
Print that maximum value of  $4*a*b$ .

[5] English text: <http://apio-olympiad.org/2011/apio2011-English.pdf>

[6] Can u AC on <https://www.spoj.com/problems/SPATHS/> ?

English text: <https://github.com/mostafa-saad/MyCompetitiveProgramming/blob/master/Olympiad/Balkan/official/2012/2012-statements.pdf>

[7] Problem was available on [https://oj.uz/problem/view/IOI10\\_saveit](https://oj.uz/problem/view/IOI10_saveit) (e.g. see old submissions), then server disabled it!

IO in case: <https://ioi2010.org/CompetitionTask.shtml>

[8] You're given a tree with weighted edges. Define  $f(S)$  for some subset of the nodes as follows:  
- First, take the xor sum of the weights of the nodes in S. Let this result be X  
- Next, take the node with least weight on the shortest path between the nodes in S. Let the weight be Y  
-  $f(S) = X \wedge Y$

E.g. if we have 1 -- 2 -- 3, then  $f(\{1, 3\}) = v[1] \wedge v[3] \wedge v[k]$  where  $v[k] = \min(v[1], v[2], v[3])$   
Find the sum of  $f(S)$  for all subsets of the nodes, modulo  $1e9+7$

[9] You could use this grader <https://github.com/quangloc99/CompetitiveProgramming/tree/master/olympiad/CEOI/2016/icc-custom-grader>

[10] <https://github.com/updown2/OI-Practice/blob/master/COCI/2009%20Holmes.cpp>

[11] Given a directed graph with n vertexes and m edges, find the popular vertexes in the graph. A popular vertex i is a vertex such that for each other node, one can either get from i to that node or one can get from that node to i

[12] Use google translate

NOTE: "\n" in end of file is required for AC

[13] Given a  $n \times n$  matrix with latin lowercase letters, find how many submatrices exist such that upper left and lower right corner letters are bigger than all other letters

[14] Given the graph described in the statement, find how many pairs  $(a, b)$  exist such that we can get from  $(0, a)$  to  $(F-1, b)$

[15] Find the number of  $n \times n$  binary matrices such that each line has two ones, each column has two ones and there are no four ones such that they form a rectangle

[16] Find out the number of simple undirected graphs having  $N$  vertices with the property that in each connected component the number of vertices is equal to the number of edges. In addition, every cycle's length must be at least  $K$ .

[17] Given an array. Find the length of a subarray that its contains every number from 1 to the maximum number in it.

[18] find sum of all numbers  $x$  with  $n$  digits such that  $x$  doesn't have 0,  $x \bmod k = 0$  and  $\text{reverse}(x) \bmod k = 0$

[19] Given an array of  $n$  ( $n \leq 1e6$ ,  $v[i] \leq 1e6$ ) numbers and  $q$  ( $q \leq 1e6$ ) queries, find for each query if we can remove at most 1 element such that gcd of the range is  $> 1$

[20] You may solve CSA41-E first

[21] <https://github.com/QuickSorting/CompetitiveProgramming/blob/master/Olympiad/USACO/USACO%2018mar-sortgold.cpp>

[22] Another OJ <https://www.acmicpc.net/problem/5496>

[23] Notice the given: device.h

[24] WARNING. A lot of precision issues. You may try using EPS of  $1e-9$  and use long doubles. At least worked well in 1 solution.

[25] Given a tree with  $n$  nodes, color the tree nodes in black or white so that the number of (unordered) pairs of twin nodes is maximum. Two nodes are twinned if and only if both are white and either are bound directly by an edge, or the single elemental chain of them contains only black nodes.

[26] Given a tree with  $n$  nodes, rooted at node 1, a number  $p$  and the time we need to visit each of the  $n$  towns, find the number of ways we can block edges in the tree such that the sum of the visiting times of the cities we can visit from node 1 is exactly  $p$  modulo 31333. Two ways differ if there is some edge  $(a, b)$  which is blocked in the first way but not in the second way

[27] Given a tree with  $n$  nodes, there are two clans and  $Q$  days. On  $i$ th day, the second clan conquers from the first clan city  $Q_i$  and we need

to print after each day, the max distance between two nodes in each of the sets(one can pass enemy nodes, but can't start or stop the trip there)

[28] English txt <https://ioinformatics.org/files/ioi2002problem5.pdf>

[29] Given an undirected graph with  $n$  vertexes and  $m$  edges, estimate in how many days the given graph will become complete. During a certain day, if there is no edge between nodes  $a$  and  $b$  but there is another node  $c$  such that there are edges between  $a$  and  $c$ , respectively  $b$  and  $c$ , there will be created an edge between  $a$  and  $b$ .

[30] Given a DAG with  $n$  nodes and  $m$  edges, find the LCA for all pairs of distinct nodes

[31] Given a tree with  $n$  nodes, where each edge has a cost, and  $M$  queries of type  $(a, b)$ , find for each of the given queries a position from an edge from the tree, which is at distance  $b$  from node  $a$

[32] problem description :

given an array  $A$  of  $N$  integers. Find how many pairs of indices  $(i, j)$  such that  $i \leq j$  and the number of different bits in  $A[i]$  and  $A[j]$  binary representations is exactly equal to 4. ( $1 \leq N \leq 10^5$ ,  $0 \leq A[i] < 2^{20}$ )

sample case :

$N = 4, A = \{15, 0, 10, 5\}$

pairs that differ by exactly 4 bits are  $(1, 2)$  and  $(3, 4)$ , so answer = 2.

[33] use google translator

[34] Use long double

[35] wrong samples??

[36] Easier version: infoarena interact

[37] Given  $n$ ,  $s$  and an array  $a$  of  $n$  elements, find a subset of array  $a$  such that the sum of the elements in that subset is  $s$  and the OR sum of the values in the array is as small as possible

[38] Given a permutation of length  $n$ , sort it in at most  $2n$  moves of type  $P_x$ (prefix of length  $x$  is reversed) or  $S_x$ (suffix of length  $x$  is reversed)

[39] read first [https://en.wikipedia.org/wiki/Round-robin\\_tournament#Scheduling\\_algorithm](https://en.wikipedia.org/wiki/Round-robin_tournament#Scheduling_algorithm)

[40] Given an array of  $N$  elements, initially empty and  $M$  queries of type  $a \ b \ c$ , add for each element  $i$  in range  $[a, b]$ ,  $c + (i - a)$ th Fibonacci number modulo 666013 and print the array resulting

[41] Given a tree with  $n$  nodes, find for each edge the maximum length of the diameter of the tree we can obtain if we move that edge such that the given graph will keep being a tree

[42] Given  $n$  lists of strings, each of them having size  $k$  and each string has size  $p$ , and  $m$  queries, find for each query whether there

exists a list from the  $n$  lists with similarity grade equal to a certain value  $x$

[43] Given  $n$  dwarfs, each one having a height and a length of hands, find the maximum number of dwarfs which can get out of a hole with height  $D$ . A dwarf can get out of the hole if he can get to a height  $\geq D$ , using his hands, his height and possibly the heights of other dwarfs

[44] read from console not file

[45] Given a simple undirected graph with  $N \leq 100,000$  nodes and  $M \leq 200,000$  edges, with each edge having cost 0 or 1, determine a spanning tree that has a cost of exactly  $K$ . It is guaranteed that a solution exists. If there are multiple solutions, output any one of them. Output:  $n-1$  lines, with each line representing one edge of the spanning tree

[46] English txt <http://ceoi.inf.elte.hu/probarch/11/trazad.pdf>

[47] Given a tree with  $n$  nodes, rooted at 1, where all values of nodes are initially empty, and  $m$  queries where at each of the queries, we either add a value  $q$  to the subtree rooted at node  $p$ , or we have to report whether it exists a node with a value  $z$  or not.

[48] Given  $m \times n$  grid, find how many ways to draw segments between points from consecutive lines exist such that there are no intersecting segments, modulo 666013

[49] Given a  $n \times n$  matrix, find for  $q$  pairs of points the max cost of a road between the points in pair

[50] Google translate should work well

[51] Eng txt <http://ceoi.inf.elte.hu/probarch/11/matzad.pdf>

[52] Similar to <https://csacademy.com/contest/round-41/task/candles/>

[53] english txt: <http://apio-olympiad.org/2008/apio-en.pdf>

[54] rephrasing: You need to select some elements and split the elements into two equal (by sum) parts. The sum of the left part should be minimum possible. The left part goes to casino and becomes two times greater.

[55] Given 4 numbers  $h, n, m, p$ , find the minimal effort one has to do such that one climbs  $n$  stairs with total height  $h$  and distinct lengths for climbing 1 stair, the effort is the height of the stair, but for more than 1 stair, the effort is the mean value of the heights climbed  $+ p$

[56] Given a tree with  $n$  nodes and  $M$  queries of type  $S$ , find for each of the queries the  $j$ th longest path starting from  $S_i$ .  
 $j$  = the number of times  $S$  was already in input

[57] official cases are weak (used on oz.uz). Please AC on dmoj.

Print new line in end of your code

[58] Given an array of  $n$  elements, split it in  $k$  continuous sequences such that the sum of the costs of each of the sequences is minimal. Cost of a sequence =  $\text{abs}(S - \text{sum of values of sequence})$ , where  $S$  is given in input too

[59] English txt [ceoi.inf.elte.hu/tasks-archive/](http://ceoi.inf.elte.hu/tasks-archive/)

[60] English txt [ceoi.inf.elte.hu/tasks-archive/](http://ceoi.inf.elte.hu/tasks-archive/)

[61] Given  $N$  points on 2D plane and  $M$  points on  $Ox$  axis, find for each of the  $M$  points the farthest point among the  $N$  points. Distance between 2 points is square of their Euclidean distance

[62] Google translate should work well

[63] Given a permutation of the first  $n$  natural numbers, perform the following algorithm: at step  $i$ , find the position of value  $i$  and put all the elements left of  $i$  at the end of the array, while keeping the original order of the array and remove  $i$  from array. Output the sum of positions

[64] English txt [ceoi.inf.elte.hu/tasks-archive/](http://ceoi.inf.elte.hu/tasks-archive/)

[65] From google translated statement you may think that the first player can take any cake he wants and the rule of taking a cake next to some already taken cake didnt apply. This is not the case

[66] Given a string of size  $2 * n + 2$ , where  $n$  of the positions have "B"(a boy sits on that chair),  $n$  of the positons have "F"(a girl sits on that chair) and the remaining 2 positions have "S"(they are adjacent), nobody sits there, use moves of type (we move kids on positions  $k$  and  $k + 1$  to the free places) so that the girls are on the left side, the boys are on the right side and the 2 free places separate the rows of boys and girls.

[67] Given  $n$  and  $k$ , find how many permutations of the first  $n$  numbers have a period =  $k$ . A period of a permutation is the number of times such that if we multiply the permutation by itself, we will get back to the starting permutation

[68] bigger constraints than POI 11 rot problem. For editorials, see rot

[69] Use google translate

[70] [use cout/cin not printf/scanf]

[71] Given a  $2 * N$  binary matrix and a number  $K$ , find the minimal amount of time to get from  $(1, 1)$  to some square on the last column, by either moving to the adjacent squares from the same column, or by moving with at most  $K$  squares away on the other column

[72] Google Translate should be ok

[73] Google translate is ok

[74] Given a subway line with  $n$  stations,  $m$  people,  $(a_i, b_i)$  =  $i$ th person arrives at station  $a_i$  at time  $b_i$  and  $k$  trains, find a way to schedule the trains such that the sum of the costs of each train is minimal. The cost of a train is the maximum amount of time one of its passengers had to wait for it

[75] Try google translate

[76] Download test data from CONTEST #6

[77] English txt [ceoi.inf.elte.hu/tasks-archive/](http://ceoi.inf.elte.hu/tasks-archive/)

[78] Given an array of size  $n$  and 2 numbers  $p$  and  $q$ , find the number of subarrays from that array which have at least  $p$  and at most  $q$  distinct elements

[79] <https://github.com/sofhasouza/CompetitiveProgramming/blob/master/POI/banks.cpp>