ff	Problem Code	Status	Submit Count	Reading Time(m)	Thinking Time(m)	Coding Time(m)	Debug Time(m)	Total Time(m)	Problem Level /10	By yourself?	Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Level	Quality
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
		This page has the SAME problems in (CF-A to CF-D3). It has problems categories, levels and quality (last 4 columns)														
		Some trainees don't like to train using Blind Order style (CF-A to CF-D3) and prefer Topics-Based style														
		This sheet page is another training style. Determine a category, go ahead and solve in order. Read Info Page. Read end of this page.														
Vanya and Fence	CF677-D2-A							0				C++ Solution Example	adhoc, NA	1	0.5	
Anton and Danik	CF734-D2-A							0				This is from Round 379. Here is the editorial	adhoc, NA	1	0.6	
Petya and Strings	CF112-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
Is your horseshoe	CF228-D2-A							0				Video Solution - Eng Ahmead Raafat (Python)	adhoc, NA	1	1	
Team	CF231-D2-A							0				Video Solution - Eng Youssef Ali	adhoc, NA	1	1	
Boy or Girl	CF236-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
Beautiful Matrix	CF263-D2-A							0				Video Solution - Eng Samed Hajajla	adhoc, NA	1	1	
Colorful Stones (Si	CF265-D2-A							0				Video Solution - Eng Ahmead Raafat (Python)	adhoc, NA	1	1	
Stones on the Tabl	CF266-D2-A							0				Video Solution - Eng Ahmead Raafat (Python)	adhoc, NA	1	1	
Games	CF268-D2-A							0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	1	
Word Capitalizatio	CF281-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
Magnets	CF344-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
Sereja and Dima	CF381-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
Gravity Flip	CF405-D2-A							0				Video Solution - Eng John Gamal	adhoc, NA	1	1	
Police Recruits	CF427-D2-A							0				Video Solution - Eng Ahmead Raafat (Python)	adhoc, NA	1	1	
Black Square	CF431-D2-A							0				Video Solution - Eng Ahmead Raafat (Python)	adhoc, NA	1	1	
Word	CF59-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
Night at the Museu	CF731-D2-A							0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	1	
Buy a Shovel	CF732-D2-A							0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	1	
Bear and Big Brot	CF791-D2-A							0				Video Solution - Eng Youssef El Ghareeb	adhoc, NA	1	1	
Good Number	CF365-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc	1	1.5	
Snow Footprints	CF298-D2-A							0				Video Solution - Dr Mostafa Saad	adhoc	1	1.5	
String Task	CF118-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Presents	CF136-D2-A							0				Video Solution - Eng Ahmed Rafaat (Python)	adhoc, NA	1	1.5	
Next Round	CF158-D12-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Twins	CF160-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Dubstep	CF208-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Mountain Scenery	CF218-D2-A							0				Video Solution - Eng John Gamal	adhoc, NA	1	1.5	
Dice Tower	CF225-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
Fancy Fence	CF270-D2-A							0				Video Solution - Eng Omar Ashraf	adhoc, NA	1	1.5	
Bit++	CF282-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
IQ Test	CF287-D2-A							0				Video Solution - Dr Mostafa Saad	adhoc, NA	1	1.5	
Polo the Penguin a	CF289-D2-A							0				Video Solution - Dr Mostafa Saad	adhoc, NA	1	1.5	
Shaass and Oskol	CF294-D2-A							0				Video Solution - Dr Mostafa Saad	adhoc, NA	1	1.5	
Yaroslav and Perm	CF296-D2-A							0				Video Solution - Dr Mostafa Saad	adhoc, NA	1	1.5	
Even Odds	CF318-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
Helpful Maths	CF339-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Ksenia and Pan Sc	CF382-D2-A							0				Video Solution - Eng Samed Hajajla	adhoc, NA	1	1.5	
Translation	CF41-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Football	CF43-D2-A							0				Video Solution - Eng Belal Abdulnasser (Python)	adhoc, NA	1	1.5	
Anton and Letters	CF443-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Laptops	CF456-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
I Wanna Be the Gu	CF469-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Keyboard	CF474-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Counterexample	CF483-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Calculating Functio	CF486-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Team Olympiad	CF490-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
Chewbacca and N	CF514-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
Pangram	CF520-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Case of the Zeros	CF556-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Lineland Mail	CF567-D2-A							0				Video Solution - Eng Ahmed Rafaat (Python)	adhoc, NA	1	1.5	
Raising Bacteria	CF579-D2-A							0				Video Solution - Eng Ahmed Rafaat (Python)	adhoc, NA	1	1.5	
Olesya and Rodior	CF584-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Alyona and Numbe	CF682-D2-A							0				Video Solution - Eng John Gamal	adhoc, NA	1	1.5	
Free Ice Cream	CF686-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Young Physicist	CF69-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Launch of Collider	CF699-D2-A							0				Video Solution - Eng Samed Hajajla	adhoc, NA	1	1.5	
Brain's Photos	CF707-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Way Too Long Wo	CF71-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Arpa's hard exam	CF742-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Mahmoud and Lon	CF766-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Snacktower	CF767-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Oath of the Night's	CF768-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
New Password	CF770-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Carrot Cakes	CF799-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Panoramix's Predi	CF80-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Is it rated?	CF807-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Die Roll	CF9-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
Electricity	UVA 12148							0				Learn Calender Leap Year	adhoc, calender, leap year	1	2	p1
Final Standings	TIMUS 1100							0				Stable sort exercise	adhoc, stable sort	1	2	p1
President's Office	CF6-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, stl	1	2	
Sum of Digits	CF102-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Meeting	CF144-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Steps	CF152-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Burglar and Match	CF16-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Growing Mushroor	CF186-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Olympic Medal	CF215-D2-B							0				Video Solution - Eng Ahmed Salah	adhoc, NA	1	2	
Effective Approach	CF227-D2-B							0				Video Solution - Eng Abanob Ashraf	adhoc, NA	1	2	
Roma and Changi	CF262-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Routine Problem	CF337-D2-B							0				Video Solution - Eng Mohamed Adel	adhoc, NA	1	2	
Jeff and Periods	CF352-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
I.O.U.	CF376-D2-B							0				Video Solution - Eng Abanob Ashraf	adhoc, NA	1	2	
Multitasking	CF384-D2-B							0					adhoc, NA	1	2	
Bear and Strings	CF385-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Inna and New Mat	CF400-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Mashmokh and To	CF415-D2-B							0				Video Solution - Eng Salma Yehia	adhoc, NA	1	2	
Pasha Maximizes	CF435-D2-B							0				Video Solution - Eng Hossam Yehia	adhoc, NA	1	2	
DZY Loves Chemi	CF445-D2-B							0				Video Solution - Eng Hussein Hesham	adhoc, NA	1	2	
Suffix Structures	CF448-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Chat Online	CF469-D2-B							0				Video Solution - Eng Mohamed Adel	adhoc, NA	1	2	
Coins	CF47-D2-B							0				Video Solution - Eng Samed Hajajla	adhoc, NA	1	2	
OR in Matrix	CF486-D2-B							0					adhoc, NA	1	2	
Vasya and Wrestli	CF493-D2-B							0					adhoc, NA	1	2	
Secret Combinatio	CF496-D2-B							0					adhoc, NA	1	2	
Mr. Kitayuta's Colo	CF505-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Fox And Two Dots	CF510-D2-B							0				Video Solution - Eng Mohamed Adel	adhoc, NA	1	2	
Pasha and String	CF525-D2-B							0				Video Solution - Eng Hossam Yehia	adhoc, NA	1	2	
Sea and Islands	CF544-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
Kefa and Company	CF580-D2-B							0				Video Solution - SolverToBe (Java)	adhoc, NA	1	2	
Kolya and Tanya	CF584-D2-B							0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	2	
Approximating a C	CF602-D2-B							0					adhoc, NA	1	2	
Hamming Distance	CF608-D2-B							0					adhoc, NA	1	2	
Petya and Country	CF66-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Bear and Finding (	CF680-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Filya and Homewo	CF714-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Complete the Wor	CF716-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Easter Eggs	CF78-D2-B							0				Video Solution - Eng Abanob Ashraf	adhoc, NA	1	2	
Hopscotch	CF141-D2-B							0					adhoc, NA	1	2	
Physics Practical	CF253-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Little Girl and Gam	CF276-D2-B							0				Video Solution - Eng Hossam Yehia	adhoc, NA	1	2	
Painting Eggs	CF282-D2-B							0					adhoc, NA	1	2	
Fence	CF363-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhock, prefix sum	1	2	
Valera and Contes	CF369-D2-B							0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	2	
Han Solo and Laze	CF514-D2-B							0					adhoc, NA	1	2	
Two Buttons	CF520-D2-B							0				Video Solution - Solver to be (Java)	adhoc, NA	1	2	
Tavas and SaDDa	CF535-D2-B							0				Video Solution - Eng Abanob Ashraf	adhoc, NA	1	2	
Preparing Olympia	CF550-D2-B							0				Video Solution - SolverToBe (Java)	adhoc, NA	1	2	
Lovely Palindrome	CF688-D2-B							0				Video Solution - Solver to be (Java)	adhoc, NA	1	2	
Anatoly and Cockr	CF719-D2-B							0					adhoc, NA	1	2	
Decoding	CF746-D2-B							0				Video Solution - Solver to be (Java)	adhoc, NA	1	2	p2
Bear and Friendsh	CF791-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Keyboard	CF88-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	p2
Kuriyama Mirai's S	CF433-D2-B							0					adhoc, prefix sum	1	2	
Vika and Squares	CF610-D2-B							0					adhoc, prefix sum	1	2	
	CF1237-D12-B							0					adhoc, prefix sum	1	3	p3
Alyona and mex	CF740-D2-C							0				Video Solution - Dr Mostafa Saad	adhoc, constructive	1	3	p2
	UVA 11053							0				Find O(n) Solution	adhoc, cycle detection for iterated function	1	3	p1
Karen and Coffee	CF816-D2-B							0					adhoc, prefix sum	1	4	p5
	CF1043-D12-C							0					adhoc, constructive	1	4	p3
	CF1075-D2-C							0					adhoc, constructive, sweep	1	4	p3
	CF1237-D12-C2							0					adhoc, constructive	1	4	p3
Molly's Chemicals	CF776-D2-C							0				Video Solution - Solver to be (Java)	adhoc	1	4	p2
Number of Ways	CF466-D2-C							0				Video Solution - Solver to be (Java)	adhoc	1	4	p2
	SPOJ TWINSNOW							0				Sol - text clarification	adhoc, canonical form, [unclear text]	1	4	p1
	UVA 10920							0				Sol	adhoc, coordinate systems, math or simulat	1	4	p1
	SRM381-D2-1000							0					adhoc, sorting, [bubble sort]	1	4	p1
Cutting Figure	CF194-D2-C							0					adhoc	1	4	
Hacker, pack your	CF822-D2-C							0				Video Solution - Solver to be (Java)	adhoc	1	4	
Greg and Array	CF296-D2-C							0					adhoc, prefix sum	1	4	
	CF1066-D3-E							0					adhoc, string, math	1	4.25	p3
Almost Equal	CF1206-D2-C							0				Video Solution - Dr Mostafa Saad	adhoc, constructive	1	4.25	p3
Permutations	CF189-D2-C							0				Sol	adhoc	1	4.5	
	SRM274-D1-500							0					adhoc, canonical form, bf or greedy	1	4.5	p2
Array Division	CF808-D2-D							0				Video Solution - Solver to be (Java)	adhoc, string prefix	1	4.5	p1
Prime Permutation	CF124-D2-C							0					adhoc, constructive	1	4.5	
Try and Catch	CF195-D2-C							0				Editorial - Eng Ahmed Osama	adhoc, string parsing	1	4.5	
Title	CF59-D2-C							0					adhoc, string parsing	1	4.5	
	CF309-D1-C							0					adhoc, binary search, bitmasks or rmq	1	5	p3
	SPOJ KOMPICI							0					adhoc, bitmasks, [=spoj iitkwpch]	1	5	p3

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
Lucky Transformat	CF122-D2-D							0					adhoc, impl	1	5	p3
	SPOJ PARSUMS							0				Sol	adhoc, cyclic shifts, partial sum or segment	1	5	p2
	CODECHEF OPPOSIT							0					adhoc	1	5	p2
	SRM321-D1-500							0				See Rushiose's code in arena summary	adhoc, sorting, [print the smallest lexicograp	1	5	p2
Fish Weight	CF298-D2-D							0					adhoc	1	5	
Dividing Island	CF63-D2-D							0					adhoc	1	5	
Median Smoothing	CF591-D2-C							0				Editorial	adhoc, constructive, impl	1	5	
	CF23-D12-C							0					adhoc, sortings, overflow	1	5.25	p3
	CF101589-GYM-F							0				Sol	adhoc	1	5.75	
	Atcoder092-ARC-B							0					adhoc, bitmasks, binary search	1	6	p3
23 out of 5	UVA 10344							0				Video Solution - Eng Mohamed Nasser	backtrack	2	2	
8 Queens Chess F	UVA 750							0				Video Solution - Eng Ayman Salah	backtrack	2	4	
Graph Coloring	UVA 193							0				Video Solution - Dr Mostafa Saad	backtrack, graph, maximum independent se	2	4	
Safe	CF47-D2-D							0					backtrack, datastructures, impl	2	5	p3
Jimmi's Riddles	UVA 10058							0				Sol	backtrack, expression parsing	3	4	p3
Grammar Evaluati	UVA 622							0				Sol	backtrack, expression parsing, [cnf]	3	5	p4
Help Vasilisa the V	CF143-D2-A							0				Video Solution - Eng John Gamal	bf	5	1.5	
Gerald is into Art	CF560-D2-B							0					bf	5	2	
Simple Game	CF570-D2-B							0					bf	5	2	
Students and Shoe	CF129-D2-B							0				Video Solution - Eng Abanob Ashraf	bf	5	2	
Balls Game	CF430-D2-B							0					bf, two pointers	5	3	p2
Cut Ribbon	CF189-D2-A							0				Video Solution - Solver to be (Java)	bf	5	3	
Searching for Grap	CF402-D2-C							0					bf, constructive	5	3	
Bulls and Cows	CF63-D2-C							0				Sol	bf, impl	5	4	p2
Almost Arithmetica	CF255-D2-C							0					bf	5	4	
Fancy Number	CF118-D2-C							0					bf or greedy	5	4	
Recycling Bottles	CF672-D2-C							0					bf or greedy	5	4	
Devu and Partition	CF439-D2-C							0					bf, constructive, impl	5	4	
Football Champior	CF200-D2-C							0					bf, impl	5	4	
Sereja and Algorith	CF368-D2-C							0					bf, impl	5	4	
Arthur and Table	CF557-D2-C							0					bf, datastructures	5	4.5	
	CF1036-D2-C							0					bf, combinatorics	5	4.5	p2
Matrix	CF365-D2-C							0					bf, math	5	4.5	p1
Removing Column	CF496-D2-C							0				Video Solution - Dr Mostafa Saad	bf	5	4.5	
	UVA 12261							0					bf, [cases]	5	5	p3
	UVA 10705							0				Sol	bf, prune, binary base, bitmasks	5	5	p3
Lucky Number 2	CF146-D2-D							0					bf, impl or greedy	5	5	p2
Levko and Array R	CF361-D2-C							0					bf or greedy	5	5	p2
	CF1017-D12-D							0					bf, bitmasks or dp_adhoc	5	5.5	p3
	CF621-D2-D							0				Sol	bf, math, logs, [one solution use complex nu	5	5.5	p2
	SRM513-D2-1000							0					bf or dp	5	5.5	p2
	CF633-D12-D							0					bf, hashing, impl, [idea that functions like fib	5	5.5	p2
	SRM525-D1-500							0					bf, graph, bitmasks	5	5.5	p3
Pipeline	CF287-D2-B							0				Video Solution - Dr Mostafa Saad	binary search	6	2.5	
Vanya and Lantern	CF492-D2-B							0				Video Solution - Solver to be (Java)	binary search, doubles	6	2.5	p2
Aggressive cows	SPOJ AGGRCOW							0				Video Solution - Eng Youssef El Ghareeb	binary search	6	3	
Hanoi Tower Troub	UVA 10276							0				Video Solution - Eng Mahmoud Adel	binary search or simulation	6	3.5	
The Stern-Brocot N	UVA 10077							0					binary search, gcd	6	3.5	
Magical Boxes	CF270-D2-C							0					binary search, greedy, math, impl	6	4	p3
Image Preview	CF651-D2-D							0					binary search, bf, left-right trick	6	4	p2
Sagheer and Nubia	CF812-D2-C							0				Video Solution - Solver to be (Java)	binary search	6	4	

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
The Playboy Chim	UVA 10611							0				Video Solution - Eng Ayman Salah	binary search	6	4	
Modified GCD	CF75-D2-C							0				Video Solution - Dr Mostafa Saad	binary search, math	6	4	p2
Dictionary Subseq	SPOJ DICTSUB							0				Sol	binary search, lower bound	6	4.5	p2
Mr. Bender and Sq	CF255-D2-D							0					binary search	6	4.5	p1
	CF1060-D12-C							0					binary search, two pointers, armortized ana	6	5	p3
Multiplication Table	CF448-D2-D							0				Video Solution - Solve to be (Java)	binary search	6	5	p2
Garland	UVA 1555							0				Sol	binary search, math or formula	6	5	p3
	SPOJ ABA12E							0				Sol	binary search, [counting subarrays with sum	6	5.5	p3
Showstopper	SPOJ MSE07E							0				Read SPOJ users' comments about IO. See here	binary search, d&c, [issues in io, seems diff	6	6	p3
	SRM319-D1-500							0					bst, greedy, combinatorics	8	5.5	p2
	SPOJ POSTERIN							0				Sol	datastructures, stack	9	3	p4
Knight Tournament	CF357-D2-C							0					datastructures, set	9	3	
	LiveArchive 8078							0				Sol	datastructures, stack or dp, [count the longe	9	4	p4
Queue	CF92-D2-D							0					datastructures, grid compress	9	4	p2
Thor	CF705-D2-C							0					datastructures, impl	9	4	p2
Database	UVA 1592							0					datastructures, multimap, hashing, bf	9	4	p2
Little Girl and Maxi	CF276-D2-C							0					datastructures, impl, sortings	9	4	
Anya and Smartph	CF518-D2-C							0					datastructures, impl	9	4.5	
Lorenzo Von Matte	CF697-D2-C							0					datastructures, impl, trees	9	4.5	
Weird Function	SPOJ WEIRDFN							0				Sol	datastructures, heap, min_max heaps, [rest	9	5	p4
Black Box	UVA 501							0				Sol - Must Read	datastructures, heap, min_max or bbst or se	9	5	p2
The SetStack Com	LiveArchive 3634							0				Sol	datastructures, sets intersections and union	9	5	p2
	CF899-D2-E							0					datastructures, lists or sets merging	9	5.5	p3
Mike and Feet	CF548-D2-D							0					datastructures, stack or rmq or segment tre	9	5.5	p2
Boxes in a Line	UVA 12657							0				Sol	datastructures, linked list, impl	9	5.5	p1
Expressions	UVA 11234							0				Sol	datastructures, stack & queue	9	6	p2
	UVA 11997							0				Sol	datastructures, heap, [counting subarrays w	9	6.25	p4
Cutting Sticks	UVA 10003							0					dp, [use scanf, you may need to avoid mem	10	3	p2
Dividing coins	UVA 562							0				Video Solution - Eng Ayman Salah	dp	10	3	
Vacation	UVA 10192							0				Explained in the tutorial videos	dp, lcs	10	3	
Divisibility	UVA 10036							0				Sol	dp, math	10	3	
Longest Match	UVA 10100							0				Sol	dp, lcs	10	3.5	
	CF1057-D12-C							0					dp, 2d grid	10	4	p2
Alternative Thinkin	CF604-D2-C							0					dp or greedy	10	4	p2
String to Palindron	UVA 10739							0				Explained in the tutorial videos	dp	10	4	
Trouble of 13-Dots	UVA 10819							0					dp, [knapsack]	10	4	
Woodcutters	CF545-D2-C							0					dp, dp_memo	10	4	
Counting	UVA 10198							0				Needs Big Integer: Have it in your cpp library or	dp, graph, cc	10	4	
Given Length and	CF489-D2-C							0					dp, greedy, impl	10	4	
Strategic Defense	UVA 497							0				Explained in the tutorial videos	dp, lis, [direct lis]	10	4	
Hard problem	CF706-D2-C							0					dp	10	4.5	p1
Boredom	CF456-D2-C							0					dp	10	4.5	
Coloring Trees	CF711-D2-C							0				Video Solution - Solver to be	dp	10	4.5	
Again Palindrome	UVA 10617							0				Sol to read	dp	10	4.5	
Scheduling Lectur	UVA 607							0				Sol	dp	10	4.5	
Divide by Three	CF792-D2-C							0				Video Solution - Solver to be (Java)	dp, dp_memo or greedy	10	4.5	
Wavio Sequence	UVA 10534							0				Sol	dp, lis efficient, lis indices or segment tree	10	5	p3
Good Sequences	CF265-D2-D							0					dp, sieve, binary search	10	5	p3
Dima and Salad	CF366-D2-C							0					dp, knapsack	10	5	p2
	CF101-D1-B							0				Sol	dp, datastructures or binary search, impl	10	5	p2
Bubble Sort Graph	CF340-D2-D							0					dp, lis, onlogn, reduce to efficient lis or dp, b	10	5	p2

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
	CF506-D1-A							0					dp, observation	10	5	p2
Barcode	CF225-D2-C							0				Video Solution - Dr Mostafa Saad	dp	10	5	
Vacations	CF699-D2-C							0					dp	10	5	
Greenhouse Effect	CF270-D2-D							0					dp, lcs, analysis	10	5	
Journey	CF721-D2-C							0					dp, graph or dijkstra	10	5	p2
	CF264-D1-C							0					dp, [non standard]	10	5.5	p4
Cow Program	CF284-D2-D							0					dp, analysis	10	5.5	p3
	CF1066-D3-F							0					dp, cases	10	5.5	p3
Optimal Array Mult	UVA 348							0				Sol	dp, mcm	10	5.5	p3
	SRM569-D2-1000							0					dp, primes	10	5.5	p3
Ilya and Roads	CF313-D2-D							0					dp, tree	10	5.5	p3
	TIMUS 1156							0					dp, bicoloring, is bipartite	10	5.5	p2
Coloring Brackets	CF149-D2-D							0				Sol	dp, dp_conting, dp_ranges	10	5.5	p2
	CF1012-D1-C							0					dp, [non standard]	10	5.5	p2
	CF623-D1-B							0					dp, gcd	10	5.75	p4
	CF1072-D2-D							0					dp, greedy	10	5.75	p3
	CF1025-D2-D							0					dp, d&c	10	6	p2
	FbHkrCup 18-R1-A							0					dp, dp_adhoc, [non standard]	11	5	p2
Kefa and Dishes	CF580-D2-D							0				Video Solution - Solver to be	dp, dp_bitmasks	13	4	p2
Permutations	SPOJ PERMUT1							0					dp, dp_bitmasks	13	4	p2
Assignments	SPOJ ASSIGN							0					dp, dp_bitmasks	13	4	p1
Pebble Solitaire	UVA 10651							0					dp, dp_bitmasks	13	4	p1
	UVA 11825							0				Sol	dp, dp_bitmasks, mask-all-subsets, [direct p	13	5	p2
Nuts for nuts	UVA 10944							0					dp, dp_bitmasks, tsp or bfs, impl	13	5	
Random Task	CF431-D2-D							0					dp, dp_bitmasks, binary search or adhoc	13	5.5	p3
Shopping Trip	UVA 11284							0				Sol	dp, dp_bitmasks, floyd	13	6	
Gone Fishing	UVA 757							0				Sol to read	dp, dp_build_output	15	3	
Make Palindrome	UVA 10453							0				Sol	dp, dp_build_output, [similar to edit distance	15	3.5	p3
Fast Food	UVA 662							0					dp, dp_build_output	15	4.5	p2
Palindromic Subse	UVA 11404							0					dp, dp_build_output	15	4.5	
Unidirectional TSP	UVA 116							0					dp, dp_build_output	15	4.5	
Changing a String	CF56-D2-D							0					dp, dp_build_output, [edit distance]	15	4.5	
Caesar's Legions	CF118-D2-D							0					dp, dp_counting	18	3	
UnsealTheSafe	SRM354-D2-1000							0					dp, dp_counting	18	3	
k-Tree	CF431-D2-C							0				Video Solution - Solver to be (Java)	dp, dp_counting, dp_trees	18	3.5	
DiceGames	SRM349-D1-500							0					dp, dp_counting	18	4	p2
Flowers	CF474-D2-D							0				Video Solution - Solver to be (Java)	dp, dp_counting	18	4.5	p2
	SRM428-D2-1000							0					dp, dp_counting or perm, adhoc	18	5	p2
	SRM144-D1-500							0					dp, dp_counting or math, combinatorics	18	5	
	SRM514-D1-500							0					dp, dp_counting, dp_bitmasks	18	6.25	p4
Little Girl and Maxi	CF276-D2-D							0				See editorials	dp, dp_digit or impl	22	4.5	p1
Roman and Numb	CF401-D2-D							0					dp, dp_digit, dp_bitmasks or adhoc	22	5	p3
Find Pair	CF160-D2-C							0					dp, dp_digit or binary search	22	5	
BagsOfGold	SRM228-D1-500							0					dp, dp_games, minimax	23	3	p3
Bachet's Game	UVA 10404							0				Sol	dp, dp_games	23	3	
RowAndCoins	SRM522-D1-250							0					dp, dp_games, dp_bitmasks or adhoc	23	3	
	CF1033-D12-C							0					dp, dp_games, [harmonic progression]	23	4	p3
EllysCheckers	SRM534-D1-250							0					dp, dp_games, dp_bitmasks or game theor	23	4	
Bag of mice	CF148-D2-D							0					dp, dp_games, dp_probability	23	4.5	p2
The Game of 31	UVA 10578							0				Sol	dp, dp_games	23	4.5	
Find the Winning M	UVA 10111							0				Sol	dp, dp_games or backtrack, minmax (alpah	23	5.5	p3

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
Tennis contest	UVA 12457							0				Sol	dp, dp_probability or probability	29	3.5	
First Digit Law	CF54-D12-C							0					dp, dp_probability	29	4	p2
France '98	UVA 542							0				Sol	dp, dp_probability, [=pku 3071]	29	4.5	p3
Bad Luck Island	CF540-D2-D							0					dp, dp_probability	29	4.5	p2
TestBettingStrateg	SRM339-D1-500							0					dp, dp_probability	29	4.5	p2
Dice Throwing	UVA 10759							0				Sol	dp, dp_probability, counting style	29	4.5	p2
Wizards and Huge	CF168-D2-D							0					dp, dp_probability	29	4.5	
	CF28-D12-C							0					dp, dp_probability, combinatorics or adhoc	29	5	p3
Check the difficulty	PKU 2151							0				Sol	dp, dp_probability	29	5	p3
	CF16-D2-E							0					dp, dp_probability, dp_table, masks	29	5	p3
Let's Dance	UVA 10218							0				Sol	dp, dp_probability or combinatorics	29	5	p1
Tribbles	UVA 11021							0				Sol	dp, dp_probability, dp_table, [independece	29	5.5	p3
Collecting Bugs	PKU 2096							0				Sol	dp, dp_probability or math, [hard text for fev	29	5.5	p2
Winning Streak	UVA 11176							0				Sol	dp, dp_probability	29	6	
Creating Palindron	UVA 11753							0				Video Solution - Eng Aya Elymany	dp, dp_ranges, lcs or backtrack	32	4.5	p3
	CF101294-GYM-I							0				Sol	dp, dp_ranges	32	4.5	p1
	SRM441-D1-250							0					dp, dp_ranges, [consective ranges, cyclic p	32	5	p2
	SRM536-D2-1000							0					dp, dp_ranges, [consective ranges]	32	5	p1
MessageMess	SRM149-D1-500							0					dp, dp_ranges, impl, [consective ranges]	32	5	
	SRM555-D2-1000							0					dp, dp_ranges, [consective ranges]	32	5	
	SRM558-D1-250							0					dp, dp_ranges, [consective ranges] or bf	32	5.5	p2
Exploring Pyramid	UVA 1362							0				Video Solution - Eng Ayman Salah	dp, dp_ranges	32	5.5	
Brackets sequence	UVA 1626							0				Sol	dp, dp_ranges	32	5.5	
	SRM509-D1-500							0					dp, dp_ranges, floyd, [cases]	32	6	p4
	UVA 507							0					dp, dp_subrectangle, 1d, [more direct uva 1	36	3	
	UVA 10667							0					dp, dp_subrectangle, 2d	36	3	
Big Maximum Sum	CF75-D2-D							0					dp, dp_subrectangle, 2d, [actually greedy v	36	5	p2
	SPOJ FISHES							0				Sol	dp, dp_subrectangle, 2d, observations, dot	36	5.5	p3
Reberland Linguist	CF667-D2-C							0					dp, dp_table	37	4.5	p3
Red-Green Towers	CF478-D2-D							0					dp, dp_table, dp_roll	37	5	p3
Cunning Gena	CF418-D1-B							0					dp, dp_table, dp_roll, dp_bitmasks, sortings	37	5.5	p4
	ZOJ 3305							0				Sol	dp, dp_table or dp_bitmasks, all submasks	37	5.5	p4
An overnight danc	CF814-D2-D							0				Video Solution - Solver to be (Java)	dp, dp_trees, geometry or greedy	38	5	p3
	CF161-D12-D							0				**Reading: DP on Trees**	dp, dp_trees or dsu-on-trees	38	5	p2
Vertex Cover	SPOJ PT07X							0				Sol	dp, dp_trees	38	5	
	CF337-D2-D							0				Sol	dp, dp_trees or diameter like, [tricky to gues	38	5.5	p4
Chloe and pleasan	CF743-D2-D							0					dp, dp_trees	38	5.5	p2
	Timus 1362							0				Sol	dp, dp_trees or greedy	38	5.5	p2
	UVA 1218							0				Sol	dp, dp_trees, [vertex cover releated]	38	5.75	p2
Playing Cubes	CF257-D2-B							0					game theory, greedy	41	2.5	
Euclid's Game	UVA 10368							0				Video Solution - Eng Moaz Rashad	game theory, gcd, dfs or pattern, [why each	41	3.5	p2
	CF1220-D12-C							0					game theory, adhoc	41	3.5	p2
Alice and Bob	CF347-D2-C							0				Video Solution - Eng Mohamed Nasser	game theory, gcd	41	4	p1
Win or Freeze	CF151-D2-C							0				Video Solution - Dr Mostafa Saad	game theory, divisors, greedy	41	4	p1
Brownie Points	UVA 10865							0				Video Solution - Eng Magdy Hasan	geometry	45	2	p1
	SRM436-D2-500							0					geometry, [slopes comparison]	45	3	p1
Points in Figures: I	UVA 476							0					geometry	45	3	
Watering Flowers	CF617-D2-C							0					geometry, bf	45	3	
Pouring Rain	CF667-D2-A							0					geometry, physics	45	3	
Fourth Point !!	UVA 10242							0				Video Solution - Eng Magdy Hasan	geometry, vectors addition	45	3	
Captain Marmot	CF474-D2-C							0				Video Solution - Dr Mostafa Saad	geometry, check square, point rotation, bf	45	3.5	p2

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
Overlapping Recta	UVA 460							0				Video Solution - Eng Muntaser Abukadeja	geometry	45	3.5	
Xrange's Pancake	HACKR xrange-and-piz							0				Sol	geometry, adhoc	45	4	p2
	HACKR a-circle-and-a-s							0					geometry, ccw, parametric equ, in circle	45	4	p2
	SPOJ FACENEMY							0				Sol	geometry, angles, precision	45	4	p1
k-Multiple Free Se	CF275-D2-C							0					geometry	45	4	
Gerald's Hexagon	CF560-D2-C							0					geometry	45	4	
View Angle	CF257-D2-C							0				Editorial - Eng Ahmed Osama	geometry, angles	45	4	
Watchmen	CF651-D2-C							0					geometry, datastructures	45	4	
Bicycle Race	CF659-D2-D							0					geometry, impl, [very nice, o(1) and o(n) sol	45	4.5	p3
Pyramids	SPOJ PIR							0				Sol	geometry, formula or matrix determinant	45	4.5	p1
Pythagorean Triple	CF707-D2-C							0					geometry, triangles, formula	45	4.5	p2
	SPOJ BILLIARD							0				Sol	geometry, angles, physics	45	5	
Cupboard and Ball	CF342-D2-C							0					geometry	45	5	p3
	CF1064-D2-E							0					geometry, binary search, interactive	45	5	p3
	CF961-D12-D							0					geometry	45	5	p2
	CF101917-D12-E							0					geometry, [ppl scared in contest, but easy]	45	5	p2
	CF552-D2-D							0					geometry, bf, counting, treemaps	45	5	p2
	CF1016-D2-E							0					geometry, binary search	45	5	p2
	CF1058-D2-D							0					geometry, triangles, number theory	45	5	p2
	UVA 1342							0				Sol	geometry, plane graph	45	5	
	CF101864-GYM-L							0				Sol	geometry, binary search or bf, greedy	45	5.5	p3
	CF80-D2-D							0					geometry, probability or algebra	45	5.5	p2
	UVA 11648							0				Sol	geometry, trapezoid formula, binary search	45	6	p2
	UVA 1333							0				Sol - Text/Background Clarification	geometry, triangles, angles, parallelogram l	45	6	p1
Hit Ball	CF203-D2-D							0					geometry, 3d, impl, math, [physics, kinemat	46	5	p2
	UVA 453							0				Learn Handling Precisions	geometry, circles, [direct circle intersection,	47	2	
Wifi Access	UVA 12748							0				Sol	geometry, circles, distances	47	2	
Rings and Glue	UVA 10301							0				Sol	geometry, circles, dsu	47	3	p1
Square Pegs And I	UVA 356							0				Sol to read	geometry, circles	47	3	
The Circumference	UVA 438							0				Sol	geometry, circles	47	3	
Points in Figures: I	UVA 477							0				Sol	geometry, circles	47	3.5	
Special Olympics	CF199-D2-B							0					geometry, circles, impl	47	4	
Biathlon	CF84-D2-C							0					geometry, circles, impl	47	4	
Packing polygons	UVA 10005							0				Sol	geometry, circles, polygon, [polyon inside p	47	5	p4
	SRM473-D1-500							0					geometry, circles, triangles, thales' theorem	47	5	p3
	SPOJ ALIENS							0				Sol - Practice on min enclosing circle	geometry, circles, min enclosing circle, [=sp	47	5	p2
	CF1059-D2-D							0					geometry, circles, binay search	47	5.25	p3
	HACKR house-location							0				Sol	geometry, circles, algebra, impl	47	5.5	p3
	UVA 10180							0				Sol	geometry, circles, tangents, point on segme	47	5.5	p2
Railway	UVA 10263							0				Sol to read	geometry, lines, distances, [=uva 460]	48	3	p3
Lining Up	UVA 270							0				Video Solution - Eng Mohamed Nasser. Don't Co	geometry, lines, line up	48	3	p3
Campus Roads	UVA 11473							0				Sol	geometry, lines, distances, impl	48	3	p2
Polyline	CF617-D2-D							0					geometry, lines, impl	48	3	
Jack Straws	UVA 273							0				Sol	geometry, lines, intersection, shortest path	48	3	
Isolated Segments	UVA 11343							0				Sol	geometry, lines, intersections	48	3	
Intersecting Lines	UVA 378							0					geometry, lines	48	3.5	
	SRM373-D2-1000							0				Sol	geometry, lines, lines intersection, rectangle	48	4	
Intersecting Line S	UVA 866							0				Sol	geometry, lines, intersections	48	4	
	SRM368-D1-500							0				Sol	geometry, lines, polyline intersection, bf, na	48	4	
Gleaming the Cub	UVA 737							0				Sol	geometry, lines, intersections	48	4	
Water Falls	UVA 833							0				Sol	geometry, lines, distances, adhoc	48	4	p3

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
How Many Points (	UVA 10790							0				Sol	geometry, lines, intersections, counting, forr	48	4	p1
River Crossing	UVA 10514							0				Sol	geometry, lines, distances, floyd	48	5	
BestTriangulation	SRM278-D2-500							0					geometry, polygon, area, [just triangle areas	49	2	
Triangle	CF408-D2-C							0					geometry, polygon	49	4	
	UVA 11665							0				Sol	geometry, polygon, pip, polygons intersectic	49	4	
	TIMUS 1599							0				Sol	geometry, polygon, pip, winding numbers, [	49	4.5	p1
	UVA 881							0				Sol	geometry, polygon, pip, polygons inside pol	49	4.5	
	CF340-D2-B							0					geometry, polygon, bf	49	5	p2
Volatile Kite	CF801-D2-D							0				Sol	geometry, polygon, binary search	49	5	p2
Polygons	UVA 137							0				Sol	geometry, polygon, pip, intersections or con	49	5.5	p3
Area	TJU 1011							0				Sol	geometry, polygon, pick's theorem	52	4.5	p1
Trees on My Islanc	UVA 10088							0					geometry, polygon, pick's theorem, gcd	52	5	
	LIVEARCHIVE 2831							0				Use polygon cut	geometry, polygon, polygon cut	53	4	
Video Surveillance	UVA 588							0				Use polygon cut	geometry, polygon, polygon cut or adhoc	53	6	p5
The Skyline Proble	UVA 105							0					greedy, geometry		3	
Marcus	UVA 10452							0				Video Solution - Eng Ayman Salah	graph	55	3	
Trees on the level	UVA 122							0				Video Solution - SolverToBe (Java)	graph, trees	55	3	
PT07Z	SPOJ PT07Z							0				Sol	graph, tree diameter	55	3	
Roads in the North	UVA 10308							0				Sol	graph, tree diameter	55	3	
	CF1068-D2-C							0					graph, adhoc	55	4	p2
Eternal Victory	CF61-D2-D							0					graph, greedy	55	4	p2
Is It A Tree?	UVA 615							0					graph, trees	55	4	p1
Mahmoud and Eha	CF959-D2-C							0				Video Solution - Eng Mohamed Salah	graph, trees, constructive	55	4	
Central Post Office	UVA 12379							0				Sol	graph, tree diameter	55	4	
The Tree Root	UVA 10459							0				Sol	graph, tree diameter	55	4.5	p3
Xor-tree	CF430-D2-C							0					graph, bf	55	5	
Renting Bikes	CF363-D2-D							0					graph, cycle, greedy	55	5	
Regular Bridge	CF550-D2-D							0					graph, prove using e.g. scc	55	5	
	CF486-D2-D							0					graph, trees, dfs, prefix sum or dp_trees	55	5.5	p5
Cycles	CF233-D2-C							0					graph, cycle	55	5.5	p3
	CF459-D2-E							0					graph, dp, sortings	55	5.5	p3
	CF1060-D12-D							0					graph, greedy	55	5.5	p3
	UVA 10982							0				Sol	graph, greedy, [close to max cut]	55	5.5	p3
	CF592-D2-D							0					graph, tree diameter	55	5.5	p3
BITMAP - Bitmap	SPOJ BITMAP							0				Editorial	graph, bfs, multisrc, multidest	57	3	p3
Pouring water	SPOJ POUR1							0				Video Solution - Eng Moaz Rashad	graph, bfs	57	3	
Jugs	UVA 571							0				Video Solution - Dr Mostafa Saad	graph, bfs	57	4	p1
Tic-Tac-Toe (I)	SPOJ TOE1							0				Video Solution - Eng Ayman Salah	graph, bfs	57	4	
Tic-Tac-Toe (II)	SPOJ TOE2							0				Video Solution - Eng Essam AlNaggar	graph, bfs	57	4	
Knight Moves	UVA 439							0				Video Solution - Eng Magdy Hasan	graph, bfs, chess or dfs	57	4	
King's Path	CF242-D2-C							0				Video Solution - Dr Mostafa Saad	graph, bfs	57	4.5	
Theseus and labyr	CF676-D2-D							0					graph, bfs, impl	57	4.5	p2
Wandering Queen	SPOJ QUEEN							0				Sol to read	graph, bfs	57	4.5	p1
Restore Graph	CF404-D2-C							0					graph, bfs	57	4.5	
Key Task	SPOJ CERC07K							0					graph, bfs, bitmask	57	4.5	
Cleaning Robot	SPOJ CLEANRBT							0					graph, bfs, bitmask or bfs preprocess then (	57	4.5	
	UVA 10888							0					graph, bfs, dp or weighted matching	57	5	p3
Text Editor	CF253-D2-C							0					graph, bfs or greedy, [search in 2d grid]	57	5	p2
Tobo or not Tobo	SPOJ ANARC08A							0				Sol	graph, bfs, trie, hashing or meet in middle	57	5	
	CF1005-D3-F							0					graph, bfs	57	5.25	p2
	TIMUS 1498							0					graph, bfs, [chess, tricky cases]	57	5.5	p2

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
	UVA 11573							0				Learn 0/1 BFS	graph, bfs, 0/1 bfs, [~spoj kaththi]	57	5.5	p2
	CF787-D2-C							0					graph, bfs, cyclic games	57	5.5	p1
	CF811-D2-D							0					graph, bfs, interactive	57	6	p2
	UVA 10461							0					graph, dfs, [finish computation times]	60	3	p1
Roads in Berland	CF25-D2-C							0					graph, dfs	60	4	p2
Party	CF116-D2-C							0					graph, dfs	60	4	p1
Forming Teams	CF216-D2-B							0				Video Solution - Dr Mostafa Saad	graph, dfs	60	4	
Block Tower	CF327-D2-D							0					graph, dfs	60	4	
Soldier and Cards	CF546-D2-C							0					graph, dfs	60	4	
Kefa and Park	CF580-D2-C							0				Video Solution - Solver to be (Java)	graph, dfs	60	4	p2
Maze	CF378-D2-C							0					graph, dfs, [reverse thinking]	60	4.5	p1
Exchange Rates	UVA 10113							0					graph, dfs, impl	60	4.5	p1
Ice Cave	CF540-D2-C							0					graph, dfs	60	4.5	
Ordering	UVA 872							0				Sol	graph, dfs	60	4.5	
Directed Roads	CF711-D2-D							0					graph, dfs, combinatorics, formula	60	5	p3
	SPOJ BIA							0				Sol	graph, dfs or directed articulation points alg	60	5	p2
Choosing Capital f	CF219-D2-D							0					graph, dfs or dp_trees	60	5	
	CF1075-D2-D							0					graph, dfs, interactive	60	5.5	p3
Infinite Maze	CF197-D2-D							0					graph, dfs	60	5.5	
Cycle in Graph	CF263-D2-D							0					graph, dfs	60	5.5	
T-decomposition	CF237-D2-D							0					graph, dfs, greedy	60	5.5	
Robbery	UVA 707							0				Sol	graph, dfs or dp	60	5.75	
Persistent Bookca	CF707-D2-D							0				Sol	graph, dfs, bitset or persistent segment tree	60	6	p3
Moodular Arithmeti	CF604-D2-D							0				Sol	graph, dfs, fermat, [rearangement propperty	60	6	p2
The Seasonal War	UVA 352							0				Video Solution - Eng Mohamed Nasser	graph, dfs, flood-fill	61	2	
Battleships	UVA 11953							0				Video Solution - Eng Aya Elymany	graph, dfs, flood-fill	61	3.5	
Maze Exploration	UVA 784							0				Video Solution - Eng Mahmoud Adel	graph, dfs, flood-fill	61	3.5	
Continents	UVA 11094							0				Video Solution - Eng Ayman Salah	graph, dfs, flood-fill	61	4	
	SRM297-D1-500							0					graph, dfs, flood-fill or bfs, bf	61	5	p3
Equivalent Strings	CF560-D2-D							0				Sol to learn	graph, dfs, isomorphism or d&c, hashing	62	4	p2
Subway tree syste	LIVEARCHIVE 2935							0				Sol	graph, dfs, isomorphism, canonical form or	62	4.5	p4
Hierarchy	SPOJ MAKETREE							0				Video Solution - Eng Yahia Ashraf	graph, dfs, topological sort	63	2	
Ordering Tasks	UVA 10305							0				Video Solution - Eng Yahia Ashraf	graph, dfs, topological sort	63	3	
	SRM419-D2-1000							0					graph, dfs, topological sort, cycles	63	4	
Spreadsheet	UVA 196							0				Sol	graph, dfs, topological sort or dp	63	4	p3
Rankings	UVA 12263							0				Sol	graph, dfs, topological sort	63	4	p2
Pick up sticks	UVA 11686							0				Sol	graph, dfs, topological sort, detect cycles	63	4	
	SRM550-D2-1000							0					graph, dfs, topological sort	63	5	p3
Robot Rapping Re	CF645-D12-D							0					graph, dfs, topological sort, binary search	63	5	p3
Gifts by the List	CF681-D2-D							0					graph, dfs, topological sort, impl	63	5	p2
Sagheer and Kinde	CF812-D2-D							0				Sol	graph, dfs, topological sort or euler, [https://	63	6	p4
Shopping	SPOJ SHOP							0					graph, dijkstra	64	3	
Sending email	UVA 10986							0					graph, dijkstra	64	3	
MELE3	SPOJ MELE3							0				Sol	graph, dijkstra	64	4.5	
Roads	SPOJ ROADS							0				Sol	graph, dijkstra or dp	64	4.5	p3
Lift Hopping	UVA 10801							0					graph, dijkstra	64	4.5	
	UVA 10740							0				Sol	graph, dijkstra, kth sp. [k <= 10]	64	5	p3
Volleyball	CF96-D2-D							0					graph, dijkstra, 2 dijkstra	64	5	p3
	UVA 12047							0				Sol	graph, dijkstra	64	5.5	p3
	UVA 10342							0				Sol - read the statement clarification	graph, dijkstra, kth sp (k=2) or floyd	64	5.5	p3
Hotel booking	UVA 11635							0				Sol	graph, dijkstra	64	5.5	

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
IP-TV	UVA 1174							0					graph, dsu	65	2	
Count the Faces.	UVA 10178							0				Read first Euler Formula	graph, dsu or dfs, cycles	65	4	p2
Learning Languag	CF278-D2-C							0					graph, dsu	65	4	
Virtual Friends	UVA 11503							0				Video Solution - Eng Moaz Rashad	graph, dsu	65	4	
Almost Union-Find	UVA 11987							0				Sol	graph, dsu	65	4.5	p3
Cthulhu	CF104-D2-C							0					graph, dsu	65	4.5	
The Child and Zoo	CF437-D2-D							0					graph, dsu	65	5	
Mahmoud and a D	CF766-D2-D							0				Video Solution - Solver to be (Java)	graph, dsu, [offline processing]	65	5	p3
	CF1012-D1-B							0					graph, dsu	65	5.25	p2
	UVA 12128							0					graph, dsu, dijkstra like or binary search, bf	65	5.5	p2
Connected Compo	CF292-D12-D							0					graph, dsu	65	5.75	p3
Trip Routing	UVA 186							0				Sol	graph, floyd, path print	68	4	p3
Numbering Paths	UVA 125							0				Sol	graph, floyd, paths counting	68	4.5	p5
Frogger	UVA 534							0				Sol	graph, floyd, minimax or dsu	68	4.5	p4
Travel in Desert	UVA 10816							0				Sol	graph, floyd, binary search	68	4.5	
Identifying Concur	UVA 334							0					graph, floyd	68	4.5	
Greg and Graph	CF296-D2-D							0					graph, floyd	68	5	p2
Dima and Bacteria	CF400-D2-D							0					graph, floyd, dfs	68	5	p2
AlgoRace	CF189-D2-D							0				Sol	graph, floyd	68	5.25	p4
Antifloyd	UVA 10987							0				Sol	graph, floyd, antifloyd	68	5.5	p4
Unique World	UVA 10448							0				Video Solution - Dr Mostafa Saad	graph, floyd, dp	68	5.5	p2
Arbitrage	UVA 104							0				Sol	graph, floyd	68	6.25	p2
Potholers	SPOJ POTHOLE							0				Sol	graph, max-flow	71	3	
Power Transmissic	UVA 10330							0				Sol	graph, max-flow, vertex constraints	71	4	
The Problem with t	UVA 10092							0					graph, max-flow, [direct bipartite is slow]	71	4.5	p3
Crimewave	UVA 563							0				Sol	graph, max-flow, vertex constraints, sparse	71	5.5	p4
Intergalactic Map	SPOJ IM							0				Sol	graph, max-flow, [vertex disjoint path/ super	71	5.5	p2
A Plug for UNIX	UVA 753							0				Sol	graph, max-flow, impl	71	5.5	p2
March of the Peng	UVA 12125							0				Sol	graph, max-flow, vertex constraints	71	6	
Gopher II	UVA 10080							0				Sol	graph, max-flow, bipartite match	72	4	
Software Allocatior	UVA 259							0				Sol	graph, max-flow, bipartite match or impl	72	4.5	
	UVA 670							0				Sol	graph, max-flow, bipartite match	72	5	p3
	UVA 1184							0				Sol	graph, max-flow, bipartite match, min path c	72	5	p2
	UVA 1194							0				Sol	graph, max-flow, bipartite match, min vertex	72	5.5	p4
	UVA 10349							0				Sol - 2 ways	graph, max-flow, bipartite match, max indep	72	5.5	p3
	UVA 11159							0				Sol	graph, max-flow, bipartite match, min path c	72	5.5	p3
	UVA 12168							0				Sol	graph, max-flow, bipartite match, konig's the	72	6	p3
	SPOJ QUEST4							0				Sol	graph, max-flow, bipartite match	72	6	p2
	UVA 663							0				Sol	graph, max-flow, bipartite match	72	6	p1
Sabotage	UVA 10480							0				Sol	graph, max-flow, min-cut, [print, as in video]	74	4.5	p1
Unique Attack	ZOJ 2587							0				Sol	graph, max-flow, min-cut, cut edges	74	5	p2
Angry Programme	UVA 11506							0				Sol	graph, max-flow, min-cut, vertex constraints	74	5.25	p3
PeopleYouMayKn	SRM447-D1-500							0				Don't use DP. Check it later in editorial. Sol	graph, max-flow, min-cut or dp	74	5.5	p3
	SPOJ COCONUTS							0				Sol	graph, max-flow, min-cut	74	6	p3
	SRM465-D1-500							0				Sol	graph, max-flow, min-cut	74	6.25	p3
Highways	UVA 10147							0				Video Solution - Eng Mahmoud Adel	graph, mst	76	3	
Is There A Second	UVA 10462							0				Sol	graph, mst, 2nd mst	76	3	
	UVA 10843							0				Theory result to read	graph, mst, # of spanning trees of complete	76	4	p2
ACM contest and E	UVA 10600							0				Video Solution - Eng Moaz Rashad	graph, mst, 2nd mst	76	4.5	p1
TimeTravellingSale	SRM492-D2-1000							0					graph, mst	76	5	p3
	CF472-D12-D							0					graph, mst, [cases], [validate tree]	76	5	p3

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
RACING	UVA 1234							0				Sol	graph, mst, max spanning tree	76	5	p2
Arctic Network	UVA 10369							0					graph, mst, [prime fails]	76	5	p2
KingdomReorganiz	SRM531-D2-1000							0					graph, mst	76	5	p1
Lazy Student	CF606-D2-D							0					graph, mst	76	5	
ActivateGame	SRM470-D2-1000							0					graph, mst	76	5.25	
Minimal Ratio Tree	LIVEARCHIVE 4326							0					graph, mst, combinatorics	76	6	
The Bottom of a G	SPOJ BOTTOM							0				Sol	graph, scc	77	3	
Test	UVA 10731							0				Sol	graph, scc	77	3.5	
Dominos	UVA 11504							0				Sol	graph, scc or topological sort, [=uva 11770,	77	4.5	p1
	CF467-D2-D							0					graph, scc, hashing or dijkstra	77	5	
	SRM312-D1-500							0					graph, scc, greedy, [scc floyd]	77	5.5	p2
Proving Equivalen	UVA 12167							0				Sol	graph, scc	77	5.5	
	SRM608-D2-1000							0				Sol	graph, bf, floyd, cycles or max flow		5.75	
	SRM391-D2-1000							0					graph, scc, dp, [scc may help thoughts]	77	6	p3
	SRM495-D1-500							0					graph, scc, probability, [more about probabi	77	6.25	
	CF403-D1-C							0					graph, scc, matrix or optimized bf, [using th	77	6.25	p5
Summer sell-off	CF810-D2-B							0				Video Solution - Solver to be (Java)	greedy	84	2	p2
Minimum Ternary S	CF1009-D12-B							0					greedy	84	2	
Towers	CF479-D2-B							0					greedy	84	2	
Semifinals	CF378-D2-B							0					greedy	84	2	
The Child and Set	CF437-D2-B							0					greedy, sorting, bitmasks	84	2.5	
Sort the Array	CF451-D2-B							0				Video Solution - Solver to be (Java)	greedy, sorting	84	2.5	p2
Mahmoud and a Ti	CF766-D2-B							0				Video Solution - Solver to be (Java)	greedy	84	2.5	p3
Escape from Stone	CF265-D2-C							0					greedy, impl	84	3	
Fixing Typos	CF363-D2-C							0					greedy, impl	84	3	
Photographer	CF203-D2-C							0					greedy, sorting	84	3	
Booking System	CF416-D2-C							0					greedy, sorting or dp	84	3.5	p3
Treasure Hunt	CF979-D2-B							0					greedy, [cases]	84	3.5	p1
Assemble	UVA 12124							0				Sol	greedy, bf or binary search	84	4	
	CODECHEF KSUM							0					greedy, sets, finding max k subarrays	84	4	p3
	CF1064-D2-C							0					greedy, palindromes	84	4	p3
	CF534-D2-D							0					greedy, set or grid compress	84	4	p2
	CF1065-D2-C							0					greedy	84	4	p2
	CF445-D2-C							0					greedy	84	4	p2
Geometric Progres	CF567-D2-C							0					greedy	84	4	p2
	SRM481-D1-500							0					greedy, math	84	4	p2
Team	CF401-D2-C							0					greedy, constructive	84	4	
Drazil and Factoria	CF515-D2-C							0				Video Solution - Dr Mostafa Saad	greedy, math	84	4	
Hiring Staff	CF216-D2-C							0					greedy	84	4	
Star sky	CF835-D2-C							0				Video Solution - Solver to be (Java)	greedy, prefix sum 2d	84	4	
Vanya and Exams	CF492-D2-C							0					greedy, sorting	84	4	
	ZOJ 1200							0				Sol	greedy, simulation, priority queue	84	4.5	p3
	CF729-D12-D							0					greedy, [pigeonhole principle]	84	4.5	p2
A and B and Intere	CF519-D2-D							0					greedy, datastructures or dp	84	4.5	p2
Palindrome Transfi	CF486-D2-C							0					greedy, impl, [reverse thinking]	84	4.5	p2
Marina and Vasya	CF584-D2-C							0					greedy, constructive, [reverse thinking]	84	4.5	p1
Tennis Champions	CF735-D2-C							0					greedy, math, [reverse thinking]	84	4.5	p1
Anya and Ghosts	CF508-D2-C							0					greedy	84	4.5	
Terse princess	CF148-D2-C							0				Video Solution - Eng Mohamed Nasser	greedy, constructive	84	4.5	
Lucky Permutation	CF287-D2-C							0					greedy, constructive	84	4.5	
Balls and Boxes	CF260-D2-C							0				Video Solution - Dr Mostafa Saad	greedy, impl	84	4.5	

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
	CF313-D2-C							0					greedy, constructive	84	5	
Upgrading Array	CF402-D2-D							0					greedy or dp	84	5	
	SRM456-D2-1000							0					greedy, math, binary search	84	5	p3
End of Exams	CF94-D2-D							0					greedy, math, impl	84	5	p3
Queue	CF141-D2-C							0					greedy, constructive	84	5	p2
	SGU 321							0				Sol	greedy, dfs , tree	84	5	p2
Dispute	CF242-D2-D							0					greedy, dfs or bfs, greedy	84	5	p2
	SRM292-D1-500							0					greedy, graph	84	5	p2
	CF1038-D2-D							0					greedy, impl	84	5	p2
	UVA 12325							0				Prove your Solution	greedy, knapsack, math	84	5	p2
	SRM405-D2-1000							0					greedy, math, strings	84	5	p2
Boring Partition	CF239-D2-D							0				Sol. Find proof (See editorial comments)	greedy, sortings	84	5	p2
No to Palindromes	CF465-D2-C							0					greedy or bf	84	5	
	CF709-D2-D							0					greedy, math or pattern or segment tree	84	5.5	p3
	CODECHEF BJUDGE							0					greedy, constructive	84	5.5	p3
	CF1023-D12-E							0					greedy, interactive, constructive	84	5.5	p3
Russian Roulette	CF104-D2-D							0					greedy, math, adhoc	84	5.5	p3
	CF1043-D12-E							0					greedy, sort, prefix sum, [maybe solve srm5	84	5.5	p3
DZY Loves Modific	CF447-D2-D							0				Prove	greedy or dp or datastructures	84	5.5	p2
	AtCoder002-AGC-C							0					greedy, datastructures, stl	84	5.5	p2
Of Zorcs and Axes	CF101149-GYM-G							0				Sol	greedy or dijkstra, [multiple start nodes]	84	5.5	p1
Robin Hood	CF672-D2-D							0					greedy, binary search, [strict time]	84	5.5	
	SRM453.5-D2-1000							0					greedy, math, sorting or dp	84	6	p3
	CF867-D12-E							0					greedy, observations	84	6	p3
	SRM392-D1-1000							0					greedy, bf, mask, impl	84	6	p2
Tennis Game	CF496-D2-D							0					greedy, bf, impl	84	6	
Wasted Time	CF127-D2-A							0					impl	86	1.5	
Juicer	CF709-D2-A							0				Video Solution - Solver to be (Java)	impl	86	1.5	
Anton and Polyhec	CF785-D2-A							0				Video Solution - Solver to be (Java)	impl	86	1.5	
Valera and X	CF404-D2-A							0				Video Solution - Solver to be (Java)	impl, stl, set	86	1.5	
Tanya and Postcar	CF518-D2-B							0					impl	86	2	
Mike and Fun	CF548-D2-B							0					impl	86	2	
Covered Path	CF534-D2-B							0					impl	86	2	
Print Check	CF631-D2-B							0					impl	86	2	
Lucky Mask	CF146-D2-B							0					impl	86	2	
Special Offer! Sup	CF219-D2-B							0					impl	86	2	p2
Non-square Equati	CF233-D2-B							0					impl	86	2	
Flag Day	CF357-D2-B							0					impl	86	2	
Sereja and Mirrorir	CF426-D2-B							0					impl	86	2	
Little Pony and So	CF454-D2-B							0					impl	86	2	
MUH and Importar	CF471-D2-B							0					impl	86	2	
Gena's Code	CF614-D2-B							0					impl	86	2	
Opposites Attract	CF131-D2-B							0					impl	86	2	
Little Pigs and Wol	CF116-D2-B							0					impl	86	2	
Cosmic Tables	CF222-D2-B							0					impl	86	2	
Prime Matrix	CF271-D2-B							0					impl	86	2	
Wet Shark and Bis	CF621-D2-B							0				Video Solution - Eng Mahmoud Mabrok	impl	86	2	
	CF1030-D12-B							0					impl, math	86	2	
Facetook Priority V	CF75-D2-B							0					impl, sorting	86	2	
Queue	CF490-D2-B							0					graph, constructive, adhoc	86	3	p2
Hanoi Tower	TIMUS 1054							0				Sol	impl, recursion, tower of hanoi	86	3	p2

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
Treasure	CF495-D2-C							0					impl	86	4	
Game	CF69-D2-C							0					impl	86	4	
Accordian Patienc	UVA 127							0				Video Solution - Eng Moaz Rashad	impl	86	4	p1
Beautiful Sets of P	CF268-D2-C							0					impl, constructive	86	4	
Appleman and Toa	CF462-D2-C							0				Sol	impl, sorting, huffman coding	86	4	
Three Logos	CF581-D2-D							0					impl	86	4.5	p2
Guess Your Way C	CF507-D2-C							0				Video Solution - Dr Mostafa Saad	impl, math	86	4.5	p2
	CF1042-D12-D							0					impl or segment tree or bit	86	5	p2
Mafia	CF349-D2-C							0					impl, math	86	5	p2
Unusual Product	CF405-D2-C							0					impl, math, [symbolic thinking]	86	5	p1
	CF101187-GYM-F							0				Sol	impl	86	5.25	p2
Special Grid	CF435-D2-D							0					impl, greedy	86	5.5	p2
Theatre Square	CF1-D12-A							0				Video Solution - Solver to be (Java)	math	87	1.5	
	CF1204-D2-A							0				Video Solution - Dr Mostafa Saad	math, log, binary, pattern observation	87	2	p2
Balanced Rating C	CF1237-D12-A							0					math, analysis	87	2	p3
The Drunk Jailer	LIVEARCHIVE 2557							0				Find a formula	math or bf	87	2	p1
Product	UVA 10106							0				Video Solution - Eng Youssef El Ghareeb. Don't	math	87	2	
To Carry or not to (	UVA 10469							0				Sol	math	87	2	
Adding Reversed I	UVA 713							0				Don't use big integer class. Write simple array co	math	87	2	
Dreamoon and Wi	CF476-D2-B							0				Video Solution - Eng Mohamed Adel	math, combinatorics, bitmasks	87	2	p3
	CF1051-D2-B							0					math	87	2.5	
Escape	CF148-D2-B							0					math	87	2.5	
Restoring Painting	CF675-D2-B							0					math	87	2.5	
Caisa and Pylons	CF463-D2-B							0				Video Solution - Eng Muntaser Abukadeja	math, impl	87	2.5	
T-primes	CF230-D2-B							0					math, numberr theory	87	2.5	
	CODECHEF GCDMOD							0				Sol uses __int128 to avoid overflow	math, __int128	87	3	p3
Polycarpus' Dice	CF534-D2-C							0				Sol	math, greedy, careful impl	87	3	p3
	CF1059-D2-C							0					math, constructive	87	4	p3
Number Sequence	UVA 10706							0					math	87	4	p2
Divisible by Seven	CF376-D2-C							0					math, number theory	87	4	p2
Fractions Again?!	UVA 10976							0				Sol to read	math, number theory	87	4	p1
Plant	CF186-D2-C							0					math	87	4	
Magic Formulas	CF424-D2-C							0					math	87	4	
Duff in Love	CF588-D2-B							0					math	87	4	
Light, more light	UVA 10110							0				Video Solution - Eng Amr Saud	math	87	4	
Power of Cryptogr	UVA 113							0				Sol to read	math, log, [double limits]	87	4	p3
Round Table Knigh	CF71-D2-C							0					math or dp	87	4	
Lucky Permutation	CF304-D2-C							0					math, constructive	87	4	
Vasya and Petya's	CF577-D2-C							0					math, impl	87	4	p2
	CF1239-D1-A							0					math, pattern	87	4.25	p3
The ? 1 ? 2 ? ... ?	UVA 10025							0					math or binary search	87	4.5	p2
Secrets	CF334-D2-C							0					math	87	4.5	
The Meaningless (	CF834-D2-C							0				Video Solution - Solver to be (Java)	math	87	4.5	
Find Maximum	CF353-D2-C							0					math, bits	87	4.5	
Plus and Square R	CF716-D2-C							0					math, constructive	87	4.5	
Bear and Prime 10	CF680-D2-C							0					math, constructive, interactive	87	4.5	
	CF1040-D2-D							0					math, randomization, binary search, interac	87	5	p4
Count Good Subst	CF451-D2-D							0					math, adhoc, palyndromes, [short code]	87	5	p3
Tavas and Karafs	CF535-D2-C							0					math, binary search	87	5	p2
As Fast As Possibl	CF701-D2-D							0					math, binary search, precision	87	5	p2
	CF955-D2-C							0					math, number theory	87	5	p2

ff	Problem Code	Status	Submit Count	Reading Time(m)	Thinking Time(m)	Coding Time(m)	Debug Time(m)	Total Time(m)	Problem Level /10	By yourself?	Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Level	Quality
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
	CF45-D12-D							0					math, randomization	87	5	p2
Ciel and Robot	CF322-D2-C							0					math, impl, [cases]	87	5	p1
Crazy Town	CF499-D2-C							0				Video Solution - Dr Mostafa Saad	math, number theory, greedy	87	5	p1
About Bacteria	CF199-D2-C							0					math	87	5	
DNA Alignment	CF520-D2-C							0					math	87	5	
Predict Outcome o	CF451-D2-C							0					math, equations, impl	87	5	p2
Analyzing Polyline	CF195-D2-D							0					math, sortings	87	5	
	CF1016-D12-D							0					math, xor, bitwise, constructive	87	5.25	p3
Quantity of Strings	CF151-D2-D							0					math, repeated squaring, graph	87	5.5	p4
How many trees?	CF9-D2-D							0					math or dp_tree	87	5.5	p2
The Errant Physici	UVA 126							0				Sol	math	87	5.5	
Software CRC	UVA 128							0				Video Solution - Eng Moaz Rashad	math	87	5.5	
Jeff and Furik	CF352-D2-D							0				Sol	math or dp_expectation	87	6	p3
Magical Array	CF84-D2-B							0					math, combinatorics	89	2.5	
Chocolate	CF617-D2-B							0				Video Solution - Eng Yahia Ashraf	math, combinatorics	89	2.5	
Colorful Field	CF79-D12-B							0				Video Solution - Solver to be (Java)	math, mod	89	2.5	p3
The World is a The	CF131-D2-C							0				Video Solution - Eng Youssef Ali	math, combinatorics	89	4	
Pocket Book	CF152-D2-C							0					math, combinatorics	89	4	
Black and white pa	UVA 11231							0				Video Solution - Eng Amr Saud	math, combinatorics, counting	89	4	
	CF758-D2-C							0					math, combinatorics	89	5	p3
	CF459-D2-C							0					math, combinatorics, constructive	89	5	p3
	HACKR ajourney							0					math, combinatorics, first/last k digits 2^n, [	89	5	p3
Shaass and Lights	CF294-D2-C							0				Video Solution - Dr Mostafa Saad	math, combinatorics	89	5.5	p4
	CF869-D2-C							0					math, combinatorics or dp_counting	89	5.5	p3
Tourist Problem	CF340-D2-C							0					math, combinatorics, impl	89	5.5	p1
Fox Dividing Chee	CF371-D2-B							0				Video Solution - Eng Abanob Ashraf	math, factorial	94	2.5	
Permalex	UVA 153							0				Sol	math, factorial, permutations, dublicates, fa	94	4.5	p3
Prime Factors	UVA 583							0					math, factorization	95	2	
Easy Number Cha	CF236-D2-B							0				Video Solution - Eng Yahia Ashraf	math, factorization	95	3	
Mr. Azad and his S	UVA 10490							0				Sol to read	math, factorization	95	3	
Prime Land	UVA 516							0					math, factorization	95	3	
Perfect P-th Power	UVA 10622							0				Video Solution - Eng Moaz Rashad	math, factorization	95	4	p1
Factovisors	UVA 10139							0				Sol to read	math, factorization, primes, [factorize x!]	95	4	
	CF1047-D2-C							0					math, factorization	95	4.5	p3
DDF	UVA 547							0					math, factorization, divisors sum, multiview	95	4.5	
	UVA 10174							0					math, factorization, case analysis	95	5	
Multifactorials	UVA 11347							0					math, factorization, divisors sum	95	5	
	CF1033-D12-D							0					math, factorization	95	5.5	p3
Remainders Game	CF688-D2-D							0					math, factorization, gcd, lcm, observations	95	6	p4
Primitive Root	SPOJ PROOT							0				Sol	math, factorization, primitve roots	95	6.25	p4
	UVA 12869							0				Sol	math, formula	98	5	p2
Combinations	UVA 369							0					math, gcd, comb formula	99	2	
Pi	UVA 412							0				Video Solution - Eng Mohamed Adel	math, gcd	99	3	
Trains	CF88-D2-C							0				Video Solution - Solver to be (Java)	math, gcd or adhoc	99	4	
Mint	UVA 10717							0				Sol	math, gcd, lcm	99	4	
The Big Race	CF592-D2-C							0					math, gcd, lcm, [overflow]	99	4.5	p3
LCM Cardinality	UVA 10892							0					math, gcd, lcm	99	4.5	
Rational Resistanc	CF344-D2-C							0					math, gcd	99	5	p3
LCM Challenge	CF236-D2-C							0					math, gcd, lcm	99	5	
	CF1010-D1-C							0					math, gcd, mod, number theory	99	5.5	p1
	AtCoder026-AGC-B							0				Sol	math, gcd, cases	99	6	p3

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
	SPOJ EASYMATH							0				Sol	math, inclusion-exclusion, lcm	101	3	
Hamburgers	CF371-D2-C							0					math, inclusion-exclusion, binary search	101	3	
The Lottery	UVA 10325							0				Video Solution - Eng Amr Bahaa [1]	math, inclusion-exclusion, gcd, overflow	101	4	
	CF101933-GYM-K							0				Sol	math, inclusion-exclusion	101	4	
	CF372-D1-B							0					math, inclusion-exclusion	101	5.75	p2
	SPOJ MSKYCODE							0				Sol	math, inclusion-exclusion	101	6	p3
	CF101992-GYM-D							0				Sol	math, inclusion-exclusion	101	6	p3
Equation	UVA 727							0					math, infix to postfix	102	4	
Farm	TIMUS 1349							0				Know Fermat's Last Theorem (Ignore proof)	math, math_adhoc, fermat last theorm	104	2	p2
Summation of Poly	UVA 10302							0					math, math_adhoc, polynomials	104	2	
	HACKR tower-3-colorin							0				Learn Fermat's little theorem	math, math_adhoc, fermat little theorm	104	3	p1
R U Kidding Mr. Fe	UVA 10509							0					math, math_adhoc, patterns	104	3.5	
Polly the Polynomi	UVA 498							0					math, math_adhoc, polynomials	104	3.5	
Jzzhu and Sequen	CF450-D2-B							0					math, matrix, matrix exponient	105	2.5	
Mirror, Mirror	UVA 466							0					math, matrix, rotate, reflect, impl	105	3	p1
Clear Symmetry	CF202-D2-C							0					math, matrix, bf	105	4	
End of Fun	SPOJ DCEPC12E							0					math, matrix	105	4.5	
Uniform Generator	UVA 408							0				Video Solution - Eng Yahia Ashraf	math, mod	109	3	
Be Efficient	UVA 11155							0					math, mod	109	5	
Quiz	CF337-D2-C							0					math, mod, pow, greedy	109	5.5	p3
Cows and Cars	UVA 10491							0				Revise Probability	math, probability, formula, fraction style	113	2	
What is the Probat	UVA 10056							0				Sol	math, probability	113	3	
	HACKR sherlock-and-p							0				Sol	math, probability, fractions style	113	3	
Probability|Given	UVA 11181							0				Sol	math, probability, conditional probability	113	4	p2
Another lottery	UVA 11628							0				Sol	math, probability, fraction style, gcd	113	4	
Mushroom Scientis	CF186-D2-D							0					math, probability or log, ternary search	113	5	p4
	CF101864-GYM-A							0				Sol	math, probability, combinatorics, math	113	5	p2
	SRM537-D2-1000							0					math, probability, graph, cycle	113	5	p2
Airplane	UVA 12461							0				Sol	math, probability, greedy	113	5	p1
Probability	UVa 11346							0				Sol	math, probability, integration	113	5.25	p3
	SRM285-D1-500							0					math, probability, bf or dp	113	5.5	
	CF26-D12-D							0				Sol - must read	math, probability, factorial, logarithm, combi	113	5.5	p3
	CF442-D1-B							0					math, probability, sorting	113	5.5	p3
	SRM352-D2-1000							0					math, probability, recursion, precision	113	5.5	
	CF513-D12-C							0				Sol	math, probability, bitmasks or dp_probability	113	6	p3
	UVA 557							0				Sol	math, probability, combinatronics	113	6	
	SPOJ FUNPROB							0				Sol	math, probability, formula	113	6	
	CF163-D12-C							0					math, probability	113	6.25	
	CF110-D2-D							0					math, probability, combinatorics	113	6.25	
God, Save me	UVA 10777							0				Sol	math, probability, expectation or dp_probab	114	4	
	SRM458-D2-500							0					math, probability, expectation, bitmasks	114	4	
	CF839-D2-C							0					math, probability, expectation, dfs	114	4	
	HACKR lazy-sorting							0				Revise Expected Value	math, probability, expectation, permutation	114	4	
Andrey and Proble	CF443-D2-D							0				Sol	math, probability, expectation, greedy or dp	114	4.5	p3
Wet Shark and Flo	CF621-D2-C							0					math, probability, expectation	114	4.5	
Little Pony and Ex	CF454-D2-C							0					math, probability, expectation, pattern	114	4.5	
	HACKR vertical-sticks							0					math, probability, expectation, linearity of ex	114	5	p3
	SRM577-D1-250							0					math, probability, expectation, linearity of ex	114	5	p3
	SRM470-D1-500							0					math, probability, expectation	114	5.5	p2
	CF500-D12-D							0					math, probability, expectation, dfs	114	5.5	p2
	CF280-D1-C							0					math, probability, expectation, dfs or dp	114	6	p3

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
Playlist	CF268-D2-E							0				Sol	math, probability, expectation, formula, gree	114	6	p3
Big Mod	UVA 374							0					math, repeated squaring, mod, direct	115	3	
Twin Primes	UVA 10394							0					math, sieve	117	3	
Factorial Factors	UVA 884							0					math, sieve, factorization	117	3.5	
Psycho	SPOJ PSYCHON							0					math, sieve, factorization, tricky big # test c	117	4	p2
Summation of Fou	UVA 10168 [2]							0				Video Solution - Eng Moaz Rashad [3]	math, sieve	117	4	
Primes or Palindro	CF569-D2-C							0					math, sieve, palindromes	117	4.5	p3
Divisibility of Facto	UVA 10484							0				Sol to read	math, sieve	117	4.5	p2
	LIVEARCHIVE 4008							0					math, sieve, [last non zero digit of permutati	117	5.5	p2
The New Rule in E	UVA 10742							0				Sol	math, sieve, binary search	117	5.5	
Sum-up the Prime	UVA 10419							0				Sol	math, sieve, dfs, dp	117	5.5	
Flying Saucer Seg	CF227-D2-C							0					math, summations	118	4.5	p3
Dreamoon and Su	CF476-D2-C							0				Video Solution - Dr Mostafa Saad	math, summations, [in my videos]	118	5	p3
	CF201-D1-B							0					math, summations, seperate summations o	118	5	p2
Spongebob and S	CF599-D2-D							0					math, summations, bf, [overflow]	118	6	p2
Largest Rectangle	SPOJ HISTOGRA							0				Sol. Don't implement as adhock/greedy/Pure ST	rmq, d&c or datastructure, [largest rectangle	122	4.5	p4
R2D2 and Droid A	CF514-D2-D							0				Use rmq	rmq, binary search or bit or two pointers	122	5	p3
Friends and Subse	CF689-D2-D							0					rmq, sparce table, binary search or datastru	122	5	p3
Pair of Numbers	CF359-D2-D							0				Sol	rmq, binary search, gcd, analysis or stack	122	5.5	p2
Square Subsets	CF448-D2-C							0					search, d&c, greedy	123	4.5	
Potentiometers	LIVEARCHIVE 2191							0					segment tree, [interval sum query]	125	2	p3
Interval Product	UVA 12532							0					segment tree or bit, [~=tju 3440]	125	2	
Halt The War	SPOJ CDC12_H							0					segment tree	125	3.5	
Multiples of 3	SPOJ MULTQ3							0				Sol	segment tree, lazy propagation	125	4	p3
Horrible Queries	SPOJ HORRIBLE							0					segment tree, lazy propagation or bit	125	4	p1
Counting Primes	SPOJ CNTPRIME							0					segment tree, sieve	125	4	p1
Maximum Sum	SPOJ KGSS							0					segment tree, [max pair sum]	125	4.5	p3
A Famous City	SPOJ CITY2							0				Sol	segment tree or adhoc	125	4.5	p2
Help R2-D2!	SPOJ HELPR2D2							0					segment tree, impl	125	4.5	p2
Light Switching	SPOJ LITE							0					segment tree, lazy propagation, [edu]	125	4.5	p1
Circular RMQ	CF52-D12-C							0					segment tree, lazy propagation, circular	125	4.5	
Brackets	SPOJ BRCKTS							0				Sol	segment tree, [bracket balance, 2 values in	125	5	p3
Can you answer th	SPOJ GSS1							0				Sol	segment tree, [max sum, part of gss series:	125	5	p3
RMQ with Shifts	UVA 12299							0				See sscanf and sprintf usage	segment tree, rmq shift	125	5	p3
AND Rounds	SPOJ ANDROUND							0				Sol	segment tree	125	5	p2
Ahoy, Pirates!	UVA 11402							0				Sol	segment tree, lazy propagation or datastruc	125	5	p2
Present	CF460-D2-C							0					segment tree, lazy propagation, greedy or b	125	5	p2
Fence Obstacle C	PKU 2374							0				Sol	segment tree, dp or dp	125	5	p1
	CF61-D2-E							0					segment tree or wavelet tree, [boring, invers	125	5	p1
Can you answer th	SPOJ GSS3							0					segment tree, [max sum+updates, spoj gss	125	5.5	p5
Sum of Squares w	SPOJ SEGSQRSS							0				Sol	segment tree, lazy propagation, impl, [weak	125	5.5	p4
	CF380-D1-C							0					segment tree, [~=spoj gss5], [spoj gss1]	125	5.5	p3
Can you answer th	SPOJ GSS4							0				Sol	segment tree or bit, [classical]	125	5.5	p2
SKYLINE	UVA 1232							0				Sol	segment tree, [skyline overlap, tle]	125	5.5	
Ordering the Soldi	SPOJ ORDERS							0				Sol	segment tree, kth element or bit or bst or tre	125	5.75	p3
	SPOJ IOPC1207							0				Sol	segment tree, lazy propagation, [handle dim	125	6	p3
	SPOJ BRCKTS2							0				Sol	segment tree, prefix sums or adhoc, recursi	125	6	p3
Bookworm	TIMUS 1638							0				Can you get AC first submission	simulation, formula, [was, tricky]	126	2	p2
Taxi	TIMUS 1607							0				Can you get AC first submission?	simulation, tricky	126	2	p1
The Blocks Proble	UVA 101							0				Sol [4]	simulation	126	3	
Oulipo	PKU 3461							0					string processing, kmp, [count word frequer	130	2	

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
A Needle in the Ha	SPOJ NHAY							0					string processing, kmp, [find words position	130	3	
Finding the Tesser	SPOJ TESSER							0					string processing, kmp	130	4	p4
Period	SPOJ PERIOD							0					string processing, kmp, period max or suffix	130	4.5	p3
Prefixes and Suffix	CF432-D2-D							0					string processing, kmp or z-function	130	5	p3
Tavas and Maleka	CF535-D2-D							0					string processing, kmp or z-function, [~cf12	130	5	p3
	CF1147-D1-B							0					string processing, kmp	130	5.25	p2
Messenger	CF631-D2-D							0					string processing, kmp	130	5.5	p3
	CF1138-D2-D							0					string processing, kmp	130	5.5	p2
	FbHkrCup 18-RQ-C							0					string processing, kmp	130	5.5	p1
	UVA 11475							0				Sol	string processing, kmp	130	5.5	
Phone List	SPOJ PHONELST							0					string processing, trie	135	3.5	
Cellphone Typing	UVA 12526							0					string processing, trie	135	4.5	p3
Disk Tree	UVA 1556							0					string processing, trie, trie using map, pretty	135	4.5	p3
Search in the dictic	SPOJ DICT							0					string processing, trie	135	4.5	p2
Vasiliy's Multiset	CF706-D2-D							0					string processing, trie	135	5	p2
	LiveArchive 8015							0				Sol	string processing, trie	135	5.25	p4
	CF842-D2-D							0					string processing, trie, [xor]	135	5.5	p3
	CF665-D12-E							0					string processing, trie	135	5.5	p3
	LiveArchive 4682							0				Sol	string processing, trie	135	5.5	
	CF455-D1-B							0					string processing, trie	135	5.5	
Spider's Web	CF216-D2-D							0					two pointers or adhoc	138	3	
Points on Line	CF252-D2-C							0					two pointers or binary search, combinatoric	138	4	p2
Hometask	CF155-D2-C							0					two pointers or dp	138	4.5	
	CF1043-D12-D							0					two pointers, [different solutions]	138	5	p3
	CODECHEF REDCGAI							0					two pointers	138	5	p2
Sereja ans Anagra	CF368-D2-D							0				Sol	two pointers or adhoc or kmp-like	138	5	p2
Vasya and String	CF676-D2-C							0					two pointers	138	5	
To Add or Not to A	CF231-D2-C							0					two pointers, binary search	138	5	
Two Strings	CF224-D2-D							0				Sol	two pointers	138	5.5	p3
Chips	CF334-D2-D							0					two pointers or adhoc	138	5.5	p2
	CF309-D12-B							0					two pointers, dp or greedy	138	5.5	p2
Maximum Xor Sec	CF281-D2-D							0					two pointers or segment tree	138	5.5	

	Caregory Code to match with Col O	Learning Order	Video
1- Column K (learning order) is same order as the sheets A-D 2- You may follow this order to learn 3- Column G is the category code as in Column O 4- Example: You learned DFS. Codes for it are 60, 61, 63. Go and solve as u want from the problems with these codes. E.g. UVA 10461		1	Watch - Approaching Problem Statement
		2	Watch - Thinking - On papers Not on PC
		3	Watch - Measuring Algorithms Perfromance - 1
		4	Watch - Elementary Math - Introduction
	109	5	Watch - Number Theory - Modular Arithmatic
	89, 101	6	Watch - Combinatorics - Counting Principles
		7	Watch - Graph Theory - Intro
	60,61,63	8	Watch - Graph Theory - DFS
	45	9	Watch - Computational Geometry - Intro
	45	10	Watch - Computational Geometry - Point and Vector
	6	11	Watch - Search Techniques - Binary Search
		12	Watch - Thinking - Problem Simplification
		13	Watch - Thinking - Brainstorm - Rank - Approach
		14	Study STL
	89, 101	15	Watch - Combinatorics - Permutations and Combinations - 1
	89, 101	16	Watch - Combinatorics - Permutations and Combinations - 2
		17	Watch - Training-Secrets of Success

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	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
										18		Watch - Training-Secrets of Success				
						99				19		Watch - Number Theory - Fib, GCD, LCM, Pow				
										20		Watch - Prefix Sum				
						57				21		Watch - Graph Theory - BFS				
										22		Review - Recursion				
						10				23		Watch - DP - intro 1				
						10				24		Watch - DP - intro 2				
						45				25		Watch - Computational Geometry - Complex Number and 2D Point				
						48				26		Watch - Computational Geometry - Lines and Distances				
										27		Watch - Focused and Diffused Thinking				
						65,76				28		Watch - Graph Theory - MST - Kruskal				
						84				29		Watch - Intro to Greedy				
										30		Watch - Thinking - Concretely - Symbolically - Pictorially				
										31		Watch - Thinking - Problem Constraints				
						117				32		Watch - Number Theory - Primes				
										33		Watch - Algebra - Number Bases and Polynomials				
										34		Watch - Algebra - Patterns in Sequences				
						118				35		Watch - Algebra - Summations				
										36		Watch - Algebra - Basic Matrix Operations				
										37		Watch - Thinking - Problem Abstraction				
										38		Watch - Thinking - Problem Reverse				
						3				39		Watch - Search Techniques - Backtracking				
										40		Review bitmasking				
						10				41		Watch - DP - Subset Style				
						32				42		Watch - DP - Consecutive Ranges Style				
						32				43		Watch - DP - Nested Ranges Style				
						32				44		Watch - DP - General Ranges Style				
										45		Watch - Thinking - Incrementally				
										46		Watch - Thinking - Problem Domain re-interpretation				
						95				47		Watch - Number Theory - Factorization				
						113				48		Watch - Probability - First 9 videos				
										49		Watch - Thinking - Search Space and Output Analysis				
										50		Watch - Thinking - Observations Discovery				
						41				51		Watch - Game Theory - Intro				
										52		Watch - Thinking - Misc - Solution Verification - Implementation				
						64				53		Watch - Graph Theory - Dijkstra				
						48				54		Watch - Computational Geometry - Lines Intersections				
						47				55		Watch - Computational Geometry - Circles				
										56		Watch - Thinking - Error Inspection - History - Contest Strategy				
						15				57		Watch - DP - Building Output				
						18				58		Watch - DP - Counting				
										59		Watch - Thinking - Let's Put All Together				
						37				60		Watch - DP - Table Method				
						68				61		Watch - Graph Theory - Floyd Warshal				
										62		Watch - Measuring Algorithms Perfromance - 2				
						62				63		Watch - Graph Theory - Tree Diameter and Isomorphism				
						114				64		Watch Video - Expected Value				
						122, 125				65		Watch - Data Structures - Segment Tree (2 vid)				
						38				66		Reading: DP on Trees				
						138				67		Watch - Two pointers technique				
						29				68		Watch - DP - Probability				

ff	Problem Code	Status	Submit Count	Reading Time(m)	Thinking Time(m)	Coding Time(m)	Debug Time(m)	Total Time(m)	Problem Level /10	By yourself?	Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Level	Quality
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
						11				69		Watch - DP - Masks (2 vid)				
						135				70		Watch - String Processing - Trie				
						36				71		Watch - DP - Sub-rectangle style				
						130				72		Watch - String Processing - KMP (2 vid)				
						23				73		Watch - DP - Games (2 vid)				
						49				74		Watch - Computational Geometry - Simple and Convex Polygons				
						49				75		Watch - Computational Geometry - Polygon Area - Centroid - Cut				
						49				76		Watch - Computational Geometry - Point in polygon				
						71,72,74				77		Watch - Graph Theory - Maximum Flow (2 vid)				
						77				78		Watch - Graph Theory - SCC (2 vid)				

[1] Or shorter:

https://github.com/ilyesLtifi/Competitive-Programming/blob/master/UVA/UVA%2010325.cpp

[2] Google first Goldbach's conjecture

[3] Or shorter: http://naivered.github.io/2016/07/03/Problem_Solving/UVa/UVa-10168-Summation-of-Four-Primes/

[4] Summary
This is a simple Simulation problem. There should be more than enough time to pass.

Explanation
Things to think about include deciding what data structure to use and how to find where each block is. Since the main operations are deletion, insertion, and splicing, linked lists are a good choice. You can also use a lookup table for keeping track of where each block is, as long as you update it for each operation.

In this problem using modularity really helps; create a function for each of the different move/pile operations and one other for printing. This way you can make sure each of the individual operations is done correctly instead of trying to find a bug amongst your whole program.

Gotchas
Illegal commands are to be ignored:
Those where a = b.
Those with a and b in the same stack.
The problem statement is incorrect - to avoid Presentation Error, there is no space before the single-digit numbers: check the below output.