	This google sheet is created by Dr Mostafa Saad Ibrahii	n. Overall ~950 problems for newcomers to problem solving.	
Problem Solving Sheet	mostafa.saad.fci@gmail.com <u>Ask.fm</u>	Site / More Contacts	
Troblem colving cheet	Video Introducing roadmap (Arabic) - to min 18 ONLY	Video explaining the sheet	
	Currenet Version V7.0	<u>Latest Version</u>	
What is this Sheet?	 Covering most of topics needed up to codeforces Div2-I Problems of scales 1 - 5.5 / 10 + Few harder ones Problems increase in difficulty per topic with intermediat Speed problems to maintain speed goals A lot of recorded videos for problems solutions, especia Several students followed its order and managed to solve a video of the following ways: A) Blind-Order training style Problems are distributed in sheets CF-A, CF-B, CF-C1, This one is a roadmap. It targets learning the knowledge Every sheet page is on average harder than the previou. This is my recommended way, though most camps/trainless is my recommended way, though most camps/trainless Quality column: P5 (important), P4(very interest Say your level is 6/10, and solved a problem of level 3 vounced to be careful with such style as it may corrupt Advantage: Mastering the algorithm tell solving some ha Disadvantage: Discovering the algorithm behind the pro 	as Faq, Topics, CF-C2 level from other OJs), but from easy to hard). Same for CF-D1, D2, D e easy/medium problems + ad-hoc problems lly for the entry levels (Arabic) re by themselves 95% of it (up to his current sheet page) CF-D3 e/skills in a consistent and balanced way s sheet page ning-approaches don't use this style ms (CF-A to CF-D3) ordered by category and level, around 950 problemg), P3(interesting), P2(good), P1(ok), Empty (normal) vith P5, you will find it a normal one. So notice, it is subjective to your siguide to skip some problems vay. your training quality, e.g. due to your bias rd problems in a short time blem is an important skill. Given that you know the topic, you lose a gets you solve many of it easier. However, when solving in real contests	ems level/background ood space to improve this skill
	- See Topics2 page (for extra topics/problems in specific	cases)	
	Proceedings of the process of the pr	,	
Advantages of this Sheet?	To be a strong contestant, one has to take care of a nur ==> This roadmap does its best to satisfy that Typical issues in our Arabian region: Guys with 700-100 Why? A) No specific roadmap or keep switching between the B) Training while knowing problem category / level C) Focus on specific online judge Again, this sheet solves these issues Allows you to write down your statiscs to learn from ther Continuous refining based on feedback	i0 solved problems and still weak!	
Your Sheet COPY	- Don't download the sheet, Use it online - Can't edit it? Because it is read-only. Read below notes - Just make a copy to your google driver - Then work over it online. Following are the details - Login to ur google Gmail - Go to my sheet - In the sheet click on 'file' menu - select Make copy - it will create copy for u - RENAME it to Junior Sheet <your name=""> - Now the copied sheet is opened for you (or go inside ur</your>		ns to learn
For Whom?	A junior is anyone who does't master solving codeforces		
Prerequisites?	Basic Programming skills such in series C++ Programm If you find my sheet is hard, Finish Assiut University prov. Know about our community and what is programming cord code with any language but preferred C++ or Java. For J	https://wides an easier starting roadmap. Finish it first Novice RoadMap	C++ is highly recommended Online Judge
	Entany language and protein out of the control of the	Social Mary Origin	
Training Style?	You can train alone, but highly advised to find partner(s)	o work with to encourage each other.	
Skills Goals	Moving from Junior Level to Semi-Senior Level: A one wh	no do pretty well in CF-Div2 A, B, C, D and similar levels (e.g. TC-Div2	2-1000)
Knowledge Goals		in Number Theory, Dynamic Programming, Greedy, Graph Theory an	,
Sheets	Sheet pages are mainly for Codeforces Div2 A, B, C, D + Each sheet has some sets, each set is ~10-15 problems. If you did well in the mandatory sets, move to next sheet. Please watch the videos in order, solve UVA/SPOJ problems to some columns, some time recordings. This helps you to the solution of the columns of the solution of the columns.	Problems on knolwdge topics (Mainly from UVA, SPOJ)The top sets are mandatoryThe below sets (after line mark) are ootherwise you still need training on similar levelthen solve the optic ems in order. Don't skip them. o know how much time you take per a problemuse that to recognize from 1-2 (easy), 3-4 (medium), 5-6(hard), 7-8 (had to read editorials), ms.	ptional pnal problems gour problems 9-10 (can't solve)
	If you solved a problem before, put ACX instead of AC. D		

	Don't let a problem o	consumes more than	2-3 hours. If can't sol	ve it. see editorials/so	olutions, If still can't s	solve it, just leave it for	now.
			ple vary in their progre			o o it, just icave it for	
		основа г сор	y a.o. progre				
	Use the following au	lide to assign a prope	er problem level				
	occ the following go	ac to assign a prope	i problem level				
	Div2-A => 1 - 2						
	Div2-B => 1.5 - 3 Div2-C => 3 - 5.5						
	Div2-C => 3 - 5.5 Div2-D => 5 - 6.5						
Problem Level Column	Div2-E => 6 - 7.5						
	D1-D => 7 - 8.5						
	D1-E => 8 - 9.5						
	In other words, mos	t of the time, one sho	uldn't assign Div2-A p	problem level such as	5. But it can be: 1, 1	I.5, 2. Very few might t	pe 2.5
Netetiene	CF136-D2-A	CF (codeforces), D2	2 (Division 2), (136, A)) is the problem URL.	Note this is not Rou	nd 136 it is Round 9	97
Notations	SRM150-D2-1000	SRM 150 (Topcode	r), D2 (Division 2), 10	00 (3rd problem)			
	For Topcoder:						
			ly use SRM number (ed first the problem na		yay https://arena.tor	ocoder com/\	
	riowever, it using the	s web areria, you nee	sa ilist the problem he	anie itseli: (the new w	ay - Hups.//arena.top	coder.com/)	
	The fastest way to g	et problem name is f	rom the editorial if exi	st			
	https://apps.topcodo	ar com/wiki/display/to	'Algorithm+Problem+	Sot+Analysis	[LOGIN here fir	retl	
			editorials&d2=archive		[LOGIN HEIE III	ori	
			ditorials/ [for recent \$				
	How to occ contact	euhmissions: https://	ADADA/ GLIOPO OC~ AA/	o can I find the eated	ione to the proble	s in TonCodor	
	now to see contest	อนมากเออเบกร. Mttps://V	www.quora.com/Whei	c-can-i-iiiiu-ιne-solut	ions-to-the-problems		
	Otherwise from mate	ch archive: https://ww	w.topcoder.com/tc?m	nodule=MatchList			
	For notes and trials	for using love areas	anniat: See https://e-	oo al/O43tPl Mo aas	download aadaiti	n all cases on local	achine and code normally.
	FOI HOLES and LIICKS	ior using Java arena	appiet. See https://go	00.gi/Q43tRL. We car	i download code witi	i ali cases on local ma	chine and code normally.
			t for 5 min for a proble	em to open. If did not	work, try in another	day	
	https://codeforces.co	om/blog/entry/61252					
	CF483-D2-A	White for a problem	from codeforces				
Problems Colors	<u>UVA 10242</u>	Basic (if possible) K	nowledge problem or	the just watched vide	eos		
Problems Colors	SPOJ CDOWN	A knowledge proble	m on topic you watch	ed before, will be har	der than basic proble	ems	
	CF518-D2-B	Problem of easier le	vel than current shee	t page level to enhan	ce multiple training le	evels in same time inst	tead of 1 level training
Moving faster	Do I have to solve e	very problem? For Di	v2 (A, B, C1) => No.	If you can move faste	r, do it. For Non CF	problems (E.g. UVA), į	please solve all
_							
Others Solutions	If you solved a probl	lem, please see some	e other accepted solu	tions in codeforces. Y	ou don't need to wat	tch my linked videos u	nless can't solve
	,	, p				T	
	Awesome Competiti	ve Programming	Many awesome link	s - very helpful for En	alish auvs		
			Ahmed is senior from		giisii guys		
	Ahmed Elsaghir Tra	imig			l addara		
External Resources	A2oj Ladders	I M agud	•	Go with Ahmed Aly I	_auders		
	Prgramming Ahmed		Arabic Programming				
	Programming Moha	med desouky	Arabic Programming				
	More Resources		Each video is part of	t a playlist			
	V1: initial release						
	V2: Vidoes updates.	. Sheet P2A: Little pro	oblems replaced + rec	ordering, P2B, P2C, F	2D merged in P2B.	P3A and P3B: new kno	owledge sheets
	V3: Added problem	names. P3A, P3B sp	<u>lit over 3 sheets, reor</u>	dered to be more incr	emental rather than	<u>random</u>	
			ts/d/12YI86X40xGtid	9t1dUHkK6urrqh6nTa	PEvOKBkAbAgU/ed	lit?usp=sharing)	
	Solving many knowl) 00 · I				
		pics (and their proble plems after each vide	ms): ~20 videos. o. You don't have to s	earch by yourself any	vmore		
			oblems inside the the			he last sheets.	
	Other concerns:						
		nsitions from a sheet t	to another d by CF since initial s	heet creation			
		nany problems adde	a by Or Since initial S	noot orealiUH			
	V5	iono to porce suisti	nrahlama				
		tions to some existing problems after its Intro					
				s, games, probability), Max Flow, SCC, S	egment Tree, 2 pointe	ers, Trie, KMP, Geometry
	Polygons						
			alance the available period of the old Misc sheet problem		egory.		
	- Added 3 stileets for	DIVZ-D (COMMINS THE	ora iviise sneet probl	Cirio)			
History			the major change for	you is replacing "Mis	c" sheet with the 3 D	Div2-D sheets. If wanna	a migrate:
	- Then Remove Mise	c sheet					
		for Div2 Dishasta an	nd make copy for your	sheet			

- Added 3 columns to the sheet: debug time, category and by yourself columns
 Each sheet is enhanced with problems from the lower sheet (shifted from it). The purpose is to mix levels per sheet, hence allow multiple training levels in same time (hard vs speed concern). See the new added color

- Added probability/expectations English videos/problems
 Added Topological sort problems
 Solution editorials linked to many non-CF problems / more videos in DIv2-A/Div2-B
- Add many problems where my trainees marked as interesting problems. Removed some problems that I think not that interesting or its ideas covered by other problems (subjective). I am working on sheets with a simple, but hard to do idea: Most of the problems seems for the trainer novel in idea with less repeated ideas, hence learning a lot while solving much less.
- Add topics based training style sheet page

- Added Topics2 (See notes there) - not intended for juniors

If you are working in some sheet, find the convenient point to switch. E.g. if you are in middle of sheet, finish it and move to new sheet page from next one. Say you are in middle C1. Finish it first. Then remove C2, D1, D2, D3. In the new version, click a sheet page and select Copy To, then copy to your sheet. In other words, migration should be 5-min process. If need more, you are doing it wrongly.

Thanks for all guys who sent sheet feedback: Mariam Alshereef, Magdy Hassan, Ahmed Yasser, Ahmed Elsayed Awad, Mohamed Nasser, Mostafa Ali Mansour, Aya elymany, Ayyad shenouda, Others

Special Thanks for Coach Alhussain Aly for his continuous help

Special Thanks for All volunteers in videos recording / Editorials writing

Q) What is the sheet requirements? Should I study algorithms and Data structures?

- ONLY programming skills (e.g. Programming 1 level). It is highly advised to implement 2-3 projects
- NO for datastructures, but learn STL (or Collections in Java/C#), It helps alot
- NO for algorithms, the sheet will teach you that in a smooth way
- For C++ guys (and others as guide) first 18 videos here: https://www.youtube.com/playlist?list=PLPt2dINI2MIZPFq6HyUB1Uhxdh1UDnZMS

Q) How much time do I need to finish the sheet?

- Answer varies from one to another
- Some trainees are fast through whole sheet
- Some trainees are slow through whole sheet Some trainees are fast in early pages, but slow at the end
- Some trainees are slow in early pages, but fast at the end
- The sheet has ~900 problems. Around 60 videos. Problems targets average guys. However, you are ecnouraged to skip problems whenever you could. I expect many guys could skip 20%-30% of the mandatory problems. Make use of the Topics page.

215 problems of level <= 2.5 (avg 20 min per problem)

23 problems of level <= 3.5 (avg 30 min per problem)
270 problems of level <= 4.5 (avg 40 min per problem)
178 problems of level <= 4.5 (avg 40 min per problem)
179 problems of level <= 5.25 (avg 60 min per problem)
179 problems of level <= 5.75 (avg 75 min per problem) 53 problems of level > 5.75 (avg 90 min per problem)

215*20+93*30+270*40+178*60+127*75+53*90 = ~700 hours (say max 900 hours)

If you trained in the summer vacation seriously for 2 month (e.g. 10 hours * 30 days * 2 month = 600 hours) + the reamining of the year effort, you could solve the whole sheet smoothly and move to Div2-

- https://ask.fm/mostafasaad87/answers/144907000290 [adjust to whatever fits with you]

Q) When should I give up and check the editorials and solutions?

https://ask.fm/mostafasaad87/answers/144907000290

Q) Got WA, should I check directly the test cases?

- No, remember in a real contest you only know your problem status (WA, TLE, ...etc)
- Struggle to find the wrong case by yourself. At least 15-30 minutes.
 Don't keep trying longer, just check the test cases
- If you can write a brute force solution for your problem, write a stress test: Generate random cases and compare the optimal algorithm with the brute force case

Q) What is the debug time?

- Once you finish coding and start testing, you verify if the program is working as expected or not

 If not, there are bugs that you need to find to make the program behave as expected. From this moment till getting the program AC = debugging time

 People could debug using 'print statements'. A better way using a debugger

 Check out these 4 videos: https://www.youtube.com/watch?v=DlbQwQEiDW0&t=0s&index=35&list=PLPt2dINI2MIZPFq6HyUB1Uhxdh1UDnZMS

Q) Should I solve every problem?

- Generally, preferred, but If you think certain level is easy (e.g. solve it within 15 minutes), then jump a block and so on
- This jumping might be for codeforces problems only

Q) Just started in Div2-A, could I finish its codeforces problems first, then solve the UVA/Colored problems?

- Many juniors find UVA problems in Div2-A hard. Lunderstand
- Yes, almost same for DIv2-B. But don't do that in next sheets as order might matter, because all of such knowledge are mainly preparations for hard Div2-B or Div2-B.
- However, following the order is a much better idea
- Similarly, one could finish All Div2-A/Div2-B codeforces problems, then solve their colored problems. Again, this is not the best way.

Q) Is using C# ok?

- Generally yes, but you won't be able to submit in UVA judge, as C# is not supported
 For such problems, write your code, but heavily test it. You may download an internet code and evalaute the test case on both
 On the other hand, learning Basic C++ + STL is not hard for C#/Java guys
- C++/Java/Pvthon are official in UVA
- Codeforces allows more such as Javascript

Q) When I watch a video, should I solve the problems in its info section?

- No. sheet has subset of these problems already in specific order
- Sheet is self-contained

Q) I watched the video, but it is hard, any tips?

- Algorithms are hard, learn to struggle
- Watch the video 2-3 times, try to rewrite its code by yourself
 Still can't get it? Google for more materials from the web (ppt/pdf/videos) and try to learn
- In worst case, leave it for now and return to it later
- Q) How does your sheet prepare for ECPC/ACPC?

- The sheet prepares you to reach level 5-5.5/10 in several categories
- If a team of 3 members solved the whole sheet, they may rank in the top 15 in the contest

But let's go in details. Individual sucess in contests depends on several factors. Let me state some of them.

- Solving many problems of good quality

- Improving your different skills (reading, thinking, coding and accuracy).
 2 persons could solve in training the same problem. One got it in 20 min first submission, and the 2nd needed 90 minutes due to 60 minutes debugging.
 Healthy training: Regular / good times for training (e.g. morning) / weekly contests / reading other codes / collaboration with others / etc
- Stress management during contests
- Emotions management when fail in solving or feel performance is not improving enough
- Avoiding Psychological issues: Comparing to others, Negative feelings, Your image, Regretting trainging time

- Moving toward a team contest, you need more concerns:
 Serious team members. If only one active member, they may end up in bad performance. So EACH team member need to finish the sheet individually + weekly contests
 Tolerating team mistakes during the contest
- PC management
- Suitable strategy + several team contests to tune it

As you may notice, there are MANY factors for sucess.

- This sheet provides you with high quality problems and good topics distribution + way to record your stats to know your weak points However, there are many concerns that YOU have to tackle by yourself and your team members
- Finish up to CF-C2 sheet, then study from the "Cracking the Coding Interview: 150 Programming Questions and Solutions" book Also watch: https://www.youtube.com/watch?v=39vqarATPyM

Q) How different is your sheet versus Ahmed Aly Ladders?

- Ladder problems are selected automatically, no personal investigation for the actual benefit/need from the problem
- Mine is mixed between automated and manual.
- At the current moments, many of my trainees and students feedback, I am aware of the problem level and its category.
 I updated the sheet many times because of the received feedback

- My sheet involves the algorithms videos to learn, in order, while you grow up.
 I selected videos to prepare you as soon as possible for Div2-C/Div2-D where many algorithms starts to appear
- It is a sheet. ready for you to record your times, notes...etc...this help to improve yourself
 It is not blocking style. If you can't solve problem, just leave it and move to other one. In ladders, you see next problem when solve current one (or do workarounds)

Q) How did you **select problems** for the sheet?

- Long story, many versions were there, from a version to another improvements were applied
- Codeforces problems where rated based on this CF tool: http://codeforces.com/blog/entry/46304?mobile=true#_=_
 Any rating is just an estimation. I found this one a pretty reasonable measure
 The videos are selected such that when comes to Div2-C/, you are ready
 Manual selections and investigations for non-CF problems to be used in the sheet

- Lots of manual efforts and investigations and feedback processing

Q) what is the next step after finishing your sheet?

- Joining directly my ICPC semi-seniors supervision, BUT
- Email me with your online sheet copy link and it **must** have Each row should have: code link, time details, problem level, category and comment per a problem
- I will review and decide
- Side note: If you started in Div2-C1 and solved first 15 problems, you can share the sheet with me to follow your updates

Q) can't access the sheet in edit mode?

- Don't download the sheet, Work over it online "better"
 Can't edit it? Because it is read-only. Read below notes.
- Just make a copy to your google driver
 Then work over it online. Following are the details
- Login to ur google Gmail
- Go to my sheet In the sheet click on 'file' menu
- select Make copy it will create copy for u

- RENAME it to Junior Training Sheet
 Now the copied sheet is opened for you (or go inside ur Google drive and you will find it)

NOTE: If u did so and still read-only format, then you are again opening my sheet (e.g. with old name), NOT your copy

Q) What to write in the category column?

The algorithm used to solve a problem. In Div2-A, this might be:

- This column is for the algorithm you used during solving. Usually, new guys in CF-A are confused. If so, leave it CF-A and start to write in CF-B The more you go in the sheet you will learn algorithms (e.g. Binary search, DP, DFS, etc). Then this what you write in level column The problem that has no algorithm but a specific idea called ad-hoc, This is the case for most of CF-A and less later

- Implementation: Means the problem request is almost direct, just code it
 Brute Force: Means instead of finding elegant solution, try all possible solutions (e.g. 3 nested loops) and select the solution
- Ad-hoc: Just per-problem thinking in a special way/analysis on how to solve the problem
 Please watch from this minute: https://youtu.be/DZ6YTtlLCE8?t=839

Q) Are problems really sorted based on easiness? I don't feel so.

They are sorted by easiness already. But, whatever order, anyone will find some are easy and some are hard in some order.

That is, no one can give you a list that every problem for YOU is easier than the next problem

In other words, If we gave 100 problems to 10 students of same level to solve and told them rank from easy to hard, they will rank them differently,

So, questions ordered by people average. The promise is, the problems will be within your range to solve

Q) What are these problems colors?

See "Problems Colors" notes in info page

Q) Are the problems sorted?

Yes, but this is tricky as sorting is subjective.
That is imagine 10 prblems given for 100 people to order based on its level, people will arrange in different ways based on theie experience

So if you felt they are not sorted, just keep going

Q) Why problem-solving is that important?

See the first 2 videos here: https://www.youtube.com/playlist?list=PLPt2dINI2MIaNcU070HIAO8JWYBcafuyG

Q) I feel bored when solving problems compare to doing projects?

https://ask.fm/mostafasaad87/answers/145333554402

Q) I would like to **freeze** my study for 1-2 years to be good in problem-solving?

I never liked that. Graduate on time. In your free times and vacations do more problem solving Relevant: https://ask.fm/mostafasaad87/answers/145151822818

Q) Topics based-training vs Blind Order

In topics training, we study a topic, then solve a lot of problems over it.

Advantages:
- Mastering the algorithm till solving some hard problems in short time

Disadvantages:

- Discovering the algorithm behind the problem is an important skill. Given that you know the topic, you lose a good space to improve this skill
- Being in the mode of specific algorithm lets you solve many of it easier. However, when solving in real contests, your mind is not so active on specific topic

In my sheets - Blind style:
- You solve 3-5 per topic. Then you have to discover the other problems by yourself. So you train to avoid the missing 2 points

- Although topics training let guys be so good early, they level stuck early and they don't improve. Seems to me, topics training is an important factor in doing so. Meanwhile, if you just target to be good in Div2D level in shorter time and no interest in further competitions achievments, you may go topics based.

Q) Who Flnished my sheet? Their levels?

https://ask.fm/mostafasaad87/answers/150802497762

Q) How to share my sheet progress with you?

https://ask.fm/mostafasaad87/answers/148552940002

Q) What is after the sheet?

- There are 2 other levels, each has around 1000 problems. Semi-senior level and seniors level
 Generally speaking, the region stars will solve a lot of problems, e.g. 2000-3000 problems with many of them of hard level
 Whoever finish the sheet, I join him in my supervision for the next levels

Problem Name	Problem Code	Status			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
	AC Averages =>	3	2.3	5	13	15	18	50	2	2	2	2
												Solution in mind is O(n*2): for each pair of points, get the equation of the straight line linking between them, and add 2 to its count. Print the count of the line having the max count. Problem is how to hash a line equation (coefficients are double).
Sample Name1	Sample Link1	AC	5	4	8	6	32	50	2	Yes	Math	My Performance Notes: This is so bad performance. Needed many submissions per problem. Always submit as if you are in real contest. Submit to AC, not to see if we will pass or not. Target AC from 1st submission. Think more before submission.
												I had to check the editorial
Sample Name2	Sample Link2	AC	1	5	10	35	20	70	2	No	Impl	My Performance Notes: This is so bad performance. He thought for little time and continued thinking while coding. As a result, much debug time too. RULE: Think More, Code Faster
												Please always write and study your timings.
Sample Name3	Sample Link3	AC	1	5	20	4	1	30	2	Yes	Graph	My Performance Notes: This is so good performance. 1st submission. Thinking is the higher. Code/Debug is so low. By time, thinking column will be improved.
Sample Name4	Sample Link4	WA	5	4	25	20	2	51	7	Hint	Math	Other Status values: AC, WA, CS, TLE, MLE, RTE, These values and comments are just examples. Just remove/ignore them.
Sample Name5	Sample Link5	CS	6	5	30	25	31	91 0	9			Want c++ solution for UVA 408? Google with: UVA 408 filetype:cpp
								0				Watch - Approaching Problem Statement
								0				Watch - Thinking - On papers Not on PC
Vanya and Fend								0				C++ Solution Example
Anton and Dani	CF734-D2-A							0				This is from Round 379. Here is the editorial You shouldn't watch a solution video unless you can't solve it by yourself and don't get it from
								0				editorial/code. Videos are there just to for extra help.
								0				In the first 20 problems, don't think more than 20 minutes. After that see the solutions.
Bear and Big Br	CF791-D2-A							0				Video Solution - Eng Youssef El Ghareeb
	CF231-D2-A							0				Video Solution - Eng Youssef Ali
Beautiful Matrix								0				Video Solution - Eng Samed Hajajla
	CF405-D2-A							0				Video Solution - Eng John Gamal
Petya and String Boy or Girl	<u>CF112-D2-A</u> <u>CF236-D2-A</u>							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
-	CF59-D2-A							0				Video Solution - Solver to be (Java)
	CF344-D2-A							0				Video Solution - Solver to be (Java)
Sereja and Dim								0				Video Solution - Solver to be (Java)
Stones on the T Police Recruits								0				Video Solution - Eng Ahmead Raafat (Python) Video Solution - Eng Ahmead Raafat (Python)
Black Square								0				Video Solution - Eng Ahmead Raafat (Python)
Night at the Mus								0				Video Solution - Eng Yahia Ashraf
Games	CF268-D2-A							0				<u>Video Solution - Eng Yahia Ashraf</u>
								0				Watch - Measuring Algorithms Perfromance - 1
								0				Watch - Elementary Math - Introduction
Buy a Shovel	CF732-D2-A							0				Video Solution - Eng Yahia Ashraf
Is your horsesh								0				Video Solution - Eng Ahmead Raafat (Python)
Colorful Stones Die Roll	CF265-D2-A CF9-D2-A							0				Video Solution - Eng Ahmead Raafat (Python) Video Solution - Eng Muntaser Abukadeja
Shaass and Osl								0				Video Solution - Dr Mostafa Saad
Juicer	CF709-D2-A							0				Video Solution - Solver to be (Java)
Carrot Cakes								0				Video Solution - Solver to be (Java)
Anton and Lette Way Too Long \								0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Free Ice Cream								0				Video Solution - Solver to be (Java)
Helpful Maths								0				Video Solution - Solver to be (Java)
Team Olympiad								0				<u>Video Solution - Eng Muntaser Abukadeja</u>
New Password	CF770-D2-A							0				
								0				Watch - Number Theory - Modular Arithmatic
								0				Watch - Combinatorics - Counting Principles
Light, more light								0				Video Solution - Eng Amr Saud
Product Uniform Genera	UVA 10106 UVA 408							0				Video Solution - Eng Youssef El Ghareeb. Don't solve using big integer Video Solution - Eng Yahia Ashraf
Black and white								0				Video Solution - Eng Amr Saud
	SPOJ EASYMAT							0				Sol
Electricity	<u>UVA 12148</u>							_				Learn Calender Leap Year
Presents	CF136-D2-A							0				Video Solution - Eng Ahmed Rafaat (Python)
	CF136-D2-A CF567-D2-A							0				Video Solution - Eng Ahmed Rafaat (Python) Video Solution - Eng Ahmed Rafaat (Python)
Mahmoud and L								0				Video Solution - Solver to be (Java)
	CF767-D2-A							0				
Oath of the Nigh								0				Video Solution - Solver to be (Java)
_	CF520-D2-A CF160-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
	CF474-D2-A							0				Video Solution - Solver to be (Java)
								0				Water Court Thomas Inter
								0				Watch - Graph Theory - Intro Watch - Graph Theory - DFS
The Seasonal V	UVA 352							0				Video Solution - Eng Mohamed Nasser
Marcus	UVA 10452							0				Video Solution - Eng Ayman Salah
Battleships	<u>UVA 11953</u>							0				Video Solution - Eng Aya Elymany
Forming Teams	CE216-D2 B							0				Read definition of: Bipartite graph Video Solution - Dr Mostafa Saad
_	SPOJ MAKETRE							0				Video Solution - Dr Mostara Saad Video Solution - Eng Yahia Ashraf
Ordering Tasks								0				Video Solution - Eng Yahia Ashraf
								0				
Even Odds I Wanna Be the	CF318-D2-A							0				Video Solution - Eng Muntaser Abukadeja Video Solution - Solver to be (Java)
i vvaiilla de tile	OI 403-DZ-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)

Problem Name	Problem Code	Status	Submit	Reading	Thinking	Coding	Debug	Total	Problem	By yourself?	Category	1-2 line Comments
				Time(m)		Time(m)						About your approach
	AC Averages =>	3	2.3	5	13	15	18	50	2	2	2	2
Olesya and Ro								0				<u>Video Solution - Solver to be (Java)</u>
Football	<u>CF43-D2-A</u>							0				Video Solution - Eng Belal Abdulnasser (Python)
Brain's Photos	CF707-D2-A							0				Video Solution - Solver to be (Java)
Dubstep	CF208-D2-A							0				<u>Video Solution - Solver to be (Java)</u>
Valera and X	CF404-D2-A							0				Video Solution - Solver to be (Java)
Arpa's hard ex	a <u>CF742-D2-A</u>							0				Video Solution - Solver to be (Java)
Calculating Fur	n <u>CF486-D2-A</u>							0				<u>Video Solution - Solver to be (Java)</u>
Theatre Square	e <u>CF1-D12-A</u>							0				<u>Video Solution - Solver to be (Java)</u>
Anton and Poly	/I CF785-D2-A							0				Video Solution - Solver to be (Java)
Panoramix's Pr	re CF80-D2-A							0				<u>Video Solution - Solver to be (Java)</u>
Counterexamp	k <u>CF483-D2-A</u>							0				Video Solution - Solver to be (Java)
								0				
								0				Watch - Computational Geometry - Intro
								0				Watch - Computational Geometry - Point and Vector
Wasted Time	CF127-D2-A							0				
Points in Figure	e <u>UVA 476</u>							0				
Overlapping Re	e <u>UVA 460</u>							0				Video Solution - Eng Muntaser Abukadeja
Fancy Fence	CF270-D2-A							0				Video Solution - Eng Omar Ashraf
Pouring Rain	CF667-D2-A							0				
Fourth Point !!								0				Video Solution - Eng Magdy Hasan
								0				
Good Number	CF365-D2-A							0				Video Solution - Eng Muntaser Abukadeja
Dice Tower	CF225-D2-A							0				Video Solution - Eng Muntaser Abukadeja
Alyona and Nu								0				Video Solution - Eng John Gamal
Mountain Scen								0				Video Solution - Eng John Gamal
Help Vasilisa th								0				Video Solution - Eng John Gamal
Chewbacca an								0				Video Solution - Eng Muntaser Abukadeja
Ksenia and Pa								0				Video Solution - Eng Muntaser Adukadeja Video Solution - Eng Samed Hajajla
Launch of Colli								0				
								0				Video Solution - Eng Samed Hajajla Video Solution - Dr Mostafa Saad
Polo the Pengu	CF289-D2-A CF287-D2-A							0				Video Solution - Dr Mostafa Saad Video Solution - Dr Mostafa Saad
Yaroslav and F								0				
Snow Footprint								0				Video Solution - Dr Mostafa Saad Video Solution - Dr Mostafa Saad
Raising Bacter								0				Video Solution - Eng Ahmed Rafaat (Python)
	tr CF1204-D2-A							0				Video Solution - Dr Mostafa Saad
	CF1237-D12-A							0				
Balaricca Ratii	N OT TEST DIEZZ							0				
								0				Watch - Search Techniques - Binary Search
The Playboy C	h UVA 10611							0				Video Solution - Eng Ayman Salah
Pipeline	CF287-D2-B							0				Video Solution - Dr Mostafa Saad
Burning Midnig								0				
	N SPOJ AGGRCOV	2						0				Video Solution - Eng Youssef El Ghareeb
								0				Before moving to another sheet, email me with feedback about these problems selection.
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				Optiona	Il Problems			0 0	You don't h parallel, up	ave to or en to you.	couraged to	
Word Capitaliz				Optiona	ıl Problems			0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	
Next Round	CF158-D12-A			Optiona	Il Problems			0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Next Round Young Physicis	CF158-D12-A CF69-D2-A			Optiona	ıl Problems			0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java) Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++	CF158-D12-A CF69-D2-A CF282-D2-A			Optiona	Il Problems			0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze	CF158-D12-A SCF69-D2-A CF282-D2-A r CF556-D2-A			Optiona	il Problems			0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation	CF158-D12-A SI CF69-D2-A CF282-D2-A II CF556-D2-A CF41-D2-A			Optiona	Il Problems			0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task	CF158-D12-A SCF69-D2-A CF282-D2-A n CF556-D2-A CF41-D2-A CF118-D2-A			Optiona	Il Problems			0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops	CF158-D12-A SCF69-D2-A CF282-D2-A CF556-D2-A CF41-D2-A CF118-D2-A CF456-D2-A			Optiona	Il Problems			0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F	CF158-D12-A SI CF69-D2-A CF282-D2-A IN CF556-D2-A CF41-D2-A CF118-D2-A CF456-D2-A SI CF950-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac	CF158-D12-A SCF69-D2-A CF282-D2-A CF256-D2-A CF41-D2-A CF418-D2-A CF456-D2-A CF456-D2-A CF950-D2-A CF467-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips	CF158-D12-A SCF69-D2-A CF282-D2-A n CF556-D2-A CF411-D2-A CF418-D2-A CF456-D2-A CF950-D2-A x CF467-D2-A st CF581-D2-A			Optiona	Il Problems			0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Left-handers, F George and Ac Vasya the Hips Fox And Snake	CF158-D12-A SI CF69-D2-A CF282-D2-A CF282-D2-A CF41-D2-A CF118-D2-A CF416-D2-A CF950-D2-A X CF967-D2-A SI CF681-D2-A SI CF581-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops George and Ac Vasya the Hips Fox And Snake The New Year:	CF158-D12-A IS CF69-D2-A CF282-D2-A CF556-D2-A CF41-D2-A CF118-D2-A CF456-D2-A CF456-D2-A CF467-D2-A X CF467-D2-A CF51-D2-A CF51-D2-A CF51-D2-A CF723-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant	CF158-D12-A ICF69-D2-A CF282-D2-A CF258-D2-A CF41-D2-A CF41-D2-A CF456-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A ICF695-D2-A			Optiona	Il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou	CF158-D12-A ICF69-D2-A CF282-D2-A CF282-D2-A CF41-D2-A CF41-D2-A CF456-D2-A ICF950-D2-A ICF950-D2-A ICF950-D2-A ICF61-D2-A CF723-D2-A CF617-D2-A ICF625-D2-A			Optiona	Il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt	CF158-D12-A IS CF69-D2-A CF282-D2-A CF282-D2-A CF118-D2-A CF118-D2-A CF156-D2-A CF456-D2-A X CF456-D2-A X CF456-D2-A CF258-D2-A CF258-D2-A CF551-D2-A CF510-D2-A CF723-D2-A CF617-D2-A CF617-D2-A IC CF255-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and	CF158-D12-A ICF68-D2-A ICF68-D2-A CF258-D2-A ICF556-D2-A CF41-D2-A CF418-D2-A ICF656-D2-A ICF656-D2-A ICF656-D2-A ICF656-D2-A ICF651-D2-A ICF617-D2-A ICF617-D2-A ICF651-D2-A ICF651-D2-A ICF651-D2-A ICF651-D2-A ICF651-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
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Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar	CF158-D12-A ICF69-D2-A ICF69-D2-A ICF69-D2-A ICF556-D2-A ICF18-D2-A ICF656-D2-A			Optional	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
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Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and	CF158-D12-A GCF68-D2-A GCF68-D2-A GCF68-D2-A GCF18-D2-A GCF18-D2-A GCF18-D2-A GCF68-D2-A GCF71-D2-A GCF68-D2-A GCF71-D2-A GCF68-D2-A GCF71-D2-A GCF68-D2-A GCF71-D2-A			Optional	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Feautiful Year Far Relative's I	CF158-D12-A GCF68-D2-A GCF68-D2-A GCF68-D2-A GCF18-D2-A GCF18-D2-A GCF18-D2-A GCF68-D2-A GCF71-D2-A GCF68-D2-A GCF71-D2-A GCF68-D2-A GCF71-D2-A GCF68-D2-A GCF71-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relattive's I Mashmokh and Triangular num	CF158-D12-A ICF69-D2-A			Optiona	Il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and Triangular num	CF158-D12-A ICF69-D2-A ICF69-D2-A CF28-D2-A CF28-D2-A CF118-D2-A CF118-D2-A CF118-D2-A ICF69-D2-A ICF711-D2-A ICF110-D2-A ICF110-D2-A ICF110-D2-A ICF110-D2-A ICF69-D2-A			Optional	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and Triangular num Roma and Luct Toy Army	CF158-D12-A ICF68-D2-A CF282-D2-A CF282-D2-A CF282-D2-A CF41-D2-A CF118-D2-A ICF68-D2-A ICF681-D2-A ICF721-D2-A ICF721-D2-A ICF721-D2-A ICF721-D2-A ICF711-D2-A			Optional	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and Triangular num	CF158-D12-A ICF68-D2-A CF282-D2-A CF282-D2-A CF282-D2-A CF41-D2-A CF118-D2-A ICF68-D2-A ICF681-D2-A ICF721-D2-A ICF721-D2-A ICF721-D2-A ICF721-D2-A ICF711-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and Triangular num Roma and Luc Toy Army Levko and Tab	CF158-D12-A ICF69-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and Triangular num Roma and Luc Toy Army Levko and Tab Cards	CF158-D12-A ICF68-D2-A ICF68-D2-A CF118-D2-A CF118-D2-A CF118-D2-A CF118-D2-A ICF68-D2-A ICF71-D2-A ICF68-D2-A ICF71-D2-A ICF68-D2-A ICF71-D2-A ICF68-D2-A			Optional	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and Triangular num Roma and Luc Toy Army Levko and Tab Cards Wizards' Duel	CF158-D12-A ICF68-D2-A ICF68-D2-A CF282-D2-A CF282-D2-A CF41-D2-A CF118-D2-A ICF68-D2-A ICF681-D2-A ICF711-D2-A ICF681-D2-A ICF711-D2-A ICF681-D2-A ICF711-D2-A			Optional	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F. George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimension Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Mashmokh and Triangular num Roma and Luci Toy Army Levko and Tab Cards Wizards' Duel Combination Luc	CF158-D12-A ICF68-D2-A CF282-D2-A CF282-D2-A CF282-D2-A CF41-D2-A CF41-D2-A CF41-D2-A CF456-D2-A ICF681-D2-A CF467-D2-A CF467-D2-A CF723-D2-A CF723-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF721-D2-A			Optional	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java)
Next Round Young Physicis Bit++ Case of the Ze Translation String Task Laptops Left-handers, F George and Ac Vasya the Hips Fox And Snake The New Year: Elephant Greg's Workou Ultra-Fast Matt Little Pony and One-dimensior Soldier and Ba Bus to Udaylar Cookies Second Order Nearly Lucky N Playing with Di A Good Contes Beautiful Year Far Relative's I Rashmokh and Triangular num Roma and Luc Toy Army Levko and Tab Cards Wizards' Duel Combination Li Summer Camp	CF158-D12-A ICF68-D2-A CF282-D2-A CF282-D2-A CF282-D2-A CF41-D2-A CF41-D2-A CF41-D2-A CF456-D2-A ICF681-D2-A CF467-D2-A CF467-D2-A CF723-D2-A CF723-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF617-D2-A ICF721-D2-A			Optiona	il Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	You don't h parallel, up	ave to or en to you.	couraged to	Solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve in Video Solution - Solver to be (Java) Video Solution - Folver to be (Java)

			Submit	Reading	Thinking	Coding	Debug	Total	Problem	Bv		1-2 line Comments
Problem Name	Problem Code	Status	Count	Time(m)	Time(m)	Time(m)	Time(m)		Level /10	By yourself?	Category	About your approach
	AC Averages =>	3	2.3	5	13	15	18	50	2	2	2	2
GukiZ and Cont	CF551-D2-A							0				
								0				
	CF278-D2-A							0				
Patrick and Sho								0				
Choosing Team	CF432-D2-A							0				
Vanya and Cub	CF492-D2-A							0				
Insomnia cure	CF148-D2-A							0				
Cakeminator	CF330-D2-A							0				
Flag	CF16-D2-A							0				
	CF248-D2-A							0				
	CF363-D2-A							0				
								0				
Amusing Joke	CF141-D2-A							0				
	CF275-D2-A							0				
	CF276-D2-A							0				
Duff and Meat								0				
Vanya and Carc								0				
	CF424-D2-A							0				
Arrival of the Ge								0				
	CF63-D2-A							0				
	CF202-D2-A							0				
Candy Bags	CF334-D2-A							0				
_								0				
Game With Stic								0				
Vasya and Soci								0				
Dima and Friend								0				
Nicholas and Pe								0				
	CF545-D2-A							0				
DZY Loves Has								0				
HQ9+	CF133-D2-A							0				
	CF670-D2-A							0				
Dividing Orange	CF244-D2-A							0				
Haiku	CF78-D2-A							0				
								0				
System of Equa	CF214-D2-A							0				
	CF25-D2-A							0				
	CF501-D2-A							0				
Restoring Passv								0				
Valera and Plate								0				
Minimum Difficu								0				
Little Elephant a								0				
Collecting Beats								0				
	CF14-D2-A							0				
Kefa and First S								0				
recia ana i iist e	<u>01 300-D2-A</u>							0				
Ilya and Bank A	CE212 D2 A							0				
Uncowed Force								0				
Reconnaissance								0				
	CF146-D2-A							0				
	CF58-D2-A							0				
								0				
George and Sle												
Ostap and Gras								0				
The number of								0				
	CF359-D2-A							0				
Tavas and Nafa	CF535-D2-A							0				
								0				
	CF4-D2-A							0				
Let's Watch Foo								0				
	CF478-D2-A							0				
Saitama Destro	CF608-D2-A							0				
Queue on Bus \$								0				
Bicycle Chain	CF215-D2-A							0				
Little Elephant a								0				
Amr and Music								0				
	CF152-D2-A							0				
Postcards and p								0				
								0				
Business trip	CF149-D2-A							0				
								0				
Drazil and Date								0				
Multiplication Ta												
	CF534-D2-A							0				
Alena's Schedu								0				
	CF631-D2-A							0				
Lucky Division								0				
Appleman and E								0				
Vasya and Digit								0				
Parallelepiped	CF224-D2-A							0				
								0				
Group of Studer	CF357-D2-A							0				
	CF651-D2-A							0				
	CF300-D2-A							0				
Round House								0				
								0				
Lala Land and A								0				
Lala Land and A												
Autocomplete	CF53-D2-A											
	CF53-D2-A CF495-D2-A							0				

Problem Name	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
	AC Averages =>	3	2.3	5	13	15	18	50	2	2	2	2
Life Without Zer	CF75-D2-A							0				

	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
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0
								0				Watch - Thinking - Problem Simplification
								0				Watch - Thinking - Brainstorm - Rank - Approach
								0				Study STL (You may study data structures if found hard)
								0				Watch - Combinatorics - Permutations and Combinations - 1
Petya and Country	CERR D2 P							0				Watch - Combinatorics - Permutations and Combinations - 2 Video Solution - Eng Muntaser Abukadeja
Bear and Finding (0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Muntaser Abukadeja
Burglar and Match								0				Video Solution - Eng Muntaser Abukadeja
Caisa and Pylons								0				Video Solution - Eng Muntaser Abukadeja
	CF102-D2-B							0				Video Solution - Eng Muntaser Abukadeja
Coins	CF47-D2-B							0				Video Solution - Eng Samed Hajajla
Effective Approach	CF227-D2-B							0				Video Solution - Eng Abanob Ashraf
Easter Eggs	CF78-D2-B							0				<u>Video Solution - Eng Abanob Ashraf</u>
Decoding	CF746-D2-B							0				Video Solution - Solver to be (Java)
								0				Watch - Training-Secrets of Success
								0				Revise Stack/Queue datastructure concepts. Learn using STL Watch - Number Theory - Fib, GCD, LCM, Pow
Big Mod	UVA 374							0				Watch - Number Triedly - Fib. GCD, ECM, FOW
	UVA 369							0				
	UVA 412							0				Video Solution - Eng Mohamed Adel
Adding Reversed N								0				Don't use big integer class. Write simple array computations
	<u>TIMUS 1607</u>							0				Can you get AC first submission?
	LIVEARCHIVE 255	7						0				Find a formula
Vanya and Lantern	CF492-D2-B							0				Video Solution - Solver to be (Java)
								0				Watch - Prefix Sum
Kuriyama Mirai's S								0				W. O.F. E. W W
	CF363-D2-B							0				Video Solution - Eng Muntaser Abukadeja
President's Office								0				Video Solution - Eng Muntaser Abukadeja Video Solution - Solver to be (Java)
Lovely Palindrome: Sort the Array	<u>CF451-D2-B</u>							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
	CF810-D2-B							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
	CF79-D12-B							0				Video Solution - Solver to be (Java)
	CF88-D2-B							0				Video Solution - Eng Muntaser Abukadeja
Mahmoud and a Tr								0				Video Solution - Solver to be (Java)
								0				Watch - Graph Theory - BFS
	SPOJ TOE1							0				<u>Video Solution - Eng Ayman Salah</u>
	SPOJ TOE2							0				Video Solution - Eng Essam AlNaggar
	UVA 439							0				Video Solution - Eng Magdy Hasan
	CF242-D2-C TIMUS 1638							0				Video Solution - Dr Mostafa Saad
	UVA 10461							0				Can you get AC first submission
	SPOJ POSTERIN							0				Sol
	0.0010012							0				
Students and Shoe	CF129-D2-B							0				Video Solution - Eng Abanob Ashraf
Dreamoon and Wif	CF476-D2-B							0				Video Solution - Eng Mohamed Adel
Chat Online	CF469-D2-B							0				Video Solution - Eng Mohamed Adel
Olympic Medal	CF215-D2-B							0				<u>Video Solution - Eng Ahmed Salah</u>
Filya and Homewo								0				Video Solution - Eng Muntaser Abukadeja
	CF400-D2-B							0				
Inna and New Mati												Video Solution - Eng Mohamed Salah
Steps	CF152-D2-B							0				Video Solution - Eng Muntaser Abukadeja
Steps Growing Mushroon	<u>CF152-D2-B</u> <u>CF186-D2-B</u>							0				<u>Video Solution - Eng Muntaser Abukadeja</u> <u>Video Solution - Eng Mohamed Salah</u>
Steps Growing Mushroon	CF152-D2-B							0				<u>Video Solution - Eng Muntaser Abukadeja</u> <u>Video Solution - Eng Mohamed Salah</u> <u>Video Solution - Eng Ahmed Salah</u>
Steps Growing Mushroon	<u>CF152-D2-B</u> <u>CF186-D2-B</u>							0 0 0				<u>Video Solution - Eng Muntaser Abukadeja</u> <u>Video Solution - Eng Mohamed Salah</u>
Steps Growing Mushroon	<u>CF152-D2-B</u> <u>CF186-D2-B</u>							0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion
Steps Growing Mushroon Escape	<u>CF152-D2-B</u> <u>CF186-D2-B</u>							0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1
Steps Growing Mushroon Escape Vacations Woodcutters	CF152-D2-B CF186-D2-B CF148-D2-B							0 0 0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1
Steps Growing Mushroon Escape Vacations Woodcutters Barcode	CF152-D2-B CF186-D2-B CF148-D2-B CF148-D2-C CF699-D2-C CF545-D2-C CF225-D2-C							0 0 0 0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents	CF152-D2-B CF186-D2-B CF148-D2-B CF148-D2-C CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094							0 0 0 0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points	CF152-D2-B CF186-D2-B CF148-D2-B CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094 UVA 10865							0 0 0 0 0 0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah Video Solution - Eng Magdy Hasan
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points	CF152-D2-B CF186-D2-B CF148-D2-B CF148-D2-C CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094							0 0 0 0 0 0 0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points Hanoi Tower	CF152-D2-B CF186-D2-B CF148-D2-B CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094 UVA 10865 TIMUS 1054							0 0 0 0 0 0 0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah Video Solution - Eng Magdy Hasan Sol
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points Hanoi Tower Roma and Changir	CF152-D2-B CF186-D2-B CF148-D2-B CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094 UVA 10865 TIMUS 1054 CF262-D2-B							0 0 0 0 0 0 0 0 0 0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah Video Solution - Eng Magdy Hasan Sol Video Solution - Eng Magdy Hasan
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points Hanoi Tower Roma and Changir Bear and Strings	CF152-D2-B CF186-D2-B CF148-D2-B CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094 UVA 10865 TIMUS 1054 CF262-D2-B CF385-D2-B							0 0 0 0 0 0 0 0 0 0 0 0				Video Solution - Eng Mohamed Salah Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah Video Solution - Eng Magdy Hasan Sol Video Solution - Eng Mohamed Salah Video Solution - Eng Mohamed Salah
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points Hanoi Tower Roma and Changir Bear and Strings	CF152-D2-B CF186-D2-B CF148-D2-B CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094 UVA 10865 TIMUS 1054 CF262-D2-B CF385-D2-B CF385-D2-B CF376-D2-B							0 0 0 0 0 0 0 0 0 0 0 0 0				Video Solution - Eng Mohamed Salah Video Solution - Eng Mohamed Salah Video Solution - Eng Mohamed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah Video Solution - Eng Magdy Hasan Sol Video Solution - Eng Mohamed Salah Video Solution - Eng Abanob Ashraf
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points Hanoi Tower Roma and Changir Bear and Strings I.O.U. Jeff and Periods	CF152-D2-B CF186-D2-B CF148-D2-B CF699-D2-C CF545-D2-C CF225-D2-C UVA 11094 UVA 10865 TIMUS 1054 CF262-D2-B CF385-D2-B CF385-D2-B CF376-D2-B							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Video Solution - Eng Mohamed Salah Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah Video Solution - Eng Magdy Hasan Sol Video Solution - Eng Mohamed Salah Video Solution - Eng Mohamed Salah
Steps Growing Mushroon Escape Vacations Woodcutters Barcode Continents Brownie Points Hanoi Tower Roma and Changir Bear and Strings I.O.U. Jeff and Periods Meeting	CF152-D2-B CF188-D2-B CF148-D2-B CF148-D2-C CF545-D2-C CF225-D2-C UVA 11094 UVA 10865 TIMUS 1054 CF262-D2-B CF385-D2-B CF378-D2-B CF376-D2-B CF375-D2-B							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Video Solution - Eng Mohamed Salah Video Solution - Eng Mohamed Salah Video Solution - Eng Ahmed Salah Review - Recursion Watch - Intro to DP - 1 Watch - Intro to DP - 2 Video Solution - Dr Mostafa Saad Video Solution - Eng Ayman Salah Video Solution - Eng Ayman Salah Video Solution - Eng Mohamed Salah Video Solution - Eng Abanob Ashraf Video Solution - Eng Aunanob Ashraf Video Solution - Eng Muntaser Abukadeja
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Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation	CF439-D2-B CF796-D2-B CF26-D12-B CF652-D2-B CF672-D2-B CF672-D2-B CF137-D2-B			Option	al Problems	5		0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good	CF439-D2-B CF796-D2-B CF26-D12-B CF652-D2-B CF672-D2-B CF672-D2-B CF137-D2-B			Optiona	al Problems	S		0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and	CF439-D2-B CF796-D2-B CF26-D12-B CF465-D2-B CF672-D2-B CF137-D2-B CF259-D2-B CF218-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and Airport	CF439-D2-B CF796-D2-B CF26-D12-B CF465-D2-B CF672-D2-B CF137-D2-B CF259-D2-B CF218-D2-B			Option	al Problems	5		0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and Airport Cornen The Be Prison Transfer A and B and Comp	CF439-D2-B CF796-D2-B CF26-D12-B CF672-D2-B CF137-D2-B CF259-D2-B CF218-D2-B CF732-D2-B CF732-D2-B CF732-D2-B CF427-D2-B CF427-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter	CF439-D2-B CF796-D2-B CF26-D12-B CF465-D2-B CF417-D2-B CF217-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF32-D2-B CF32-D2-B CF318-D2-B CF318-D2-B CF318-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter	CF439-D2-B CF796-D2-B CF26-D12-B CF672-D2-B CF137-D2-B CF259-D2-B CF218-D2-B CF732-D2-B CF732-D2-B CF732-D2-B CF427-D2-B CF427-D2-B			Option	al Problems	5		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and Airport Commen The Be Prison Transfer A and B and Comp Lettler Game of Robots	CF439-D2-B CF796-D2-B CF26-D12-B CF672-D12-B CF672-D2-B CF137-D2-B CF259-D2-B CF732-D2-B CF732-D2-B CF427-D2-B CF43-D2-B CF43-D2-B CF670-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and Airport Commen — The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword	CF439-D2-B CF796-D2-B CF26-D12-B CF672-D2-B CF672-D2-B CF137-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF32-D2-B CF32-D2-B CF32-D2-B CF32-D2-B CF32-D2-B CF32-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Indox (100500) Different is Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword Cows and Poker G	CF439-D2-B CF796-D2-B CF796-D2-B CF465-D2-B CF457-D2-B CF137-D2-B CF259-D2-B CF2732-D2-B CF2732-D2-B CF327-D2-B CF39-D2-B CF392-D2-B CF392-D2-B CF392-D2-B CF392-D2-B CF392-D2-B CF392-D2-B CF392-D2-B CF392-D2-B CF392-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Inbox (100500) Different is Good Permutation Little Elephant and Airport Commen — The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword	CF439-D2-B CF796-D2-B CF26-D12-B CF672-D2-B CF672-D2-B CF137-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF32-D2-B CF32-D2-B CF32-D2-B CF32-D2-B CF32-D2-B CF32-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
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Devu, the Dumb G Find The Bone Regular Bracket S Indox (100500) Different is Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword Cows and Poker C Cows and Poker C Cows and Poker G Beautiful Paintings Ilya and Queries Code Parsing Hungry Sequence Chioe and the seq Luxurious Houses Settlers' Training Settlers' Training Settlers' Training Settlers' Training Vibrur and Array Text Document An	CF439-D2-B CF796-D2-B CF26-D12-B CF65-D2-B CF652-D2-B CF652-D2-B CF352-D2-B CF352-D2-B CF352-D2-B CF427-D2-B CF43-D2-B CF43-D2-B CF650-D2-B CF352-D2-B CF352-D2-B CF352-D2-B CF352-D2-B CF352-D2-B CF352-D2-B CF352-D2-B CF352-D2-B CF353-D2-B CF353-D2-B CF353-D2-B CF353-D2-B CF353-D2-B CF353-D2-B CF353-D2-B CF333-D2-B CF653-D2-B CF551-D2-B			Option	al Problems	S		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Indox (100500) Different is Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword Cows and Poker G Find Marble Interesting drink Megacity Beautiful Paintings Ilya and Queries Code Parsing Hungry Sequence Chloe and the seq Luxurious Houses Settlers' Training Far Relative's Prot Wilbur and Array Text Document An Shower Line	CF439-D2-B CF796-D2-B CF796-D2-B CF465-D2-B CF465-D2-B CF32-D2-B CF259-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF218-D2-B CF327-D2-B CF337-D2-B CF337-D2-B CF337-D2-B CF7337-D2-B CF7337-D2-B CF7337-D2-B			Option	al Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java)
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Devu, the Dumb G Find The Bone Regular Bracket S Regular Bracket S Regular Bracket S Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword Cows and Poker G Find Marble Interesting drink Megacity Beautiful Paintings Ilya and Queries Code Parsing Hungry Sequence Chloe and the seq Luxurious Houses Settlers' Training Far Relative's Prot Wilbur and Array Tibur and Array Tschower Line Misha and Changii	CF439-D2-B CF796-D2-B CF796-D2-B CF672-D2-B CF372-D2-B CF32-D2-B CF32-D2-B CF32-D2-B CF43-D2-B CF427-D2-B CF427-D2-B CF43-D2-B CF442-D2-B CF327-D2-B CF531-D2-B CF531-D2-B CF531-D2-B CF531-D2-B CF531-D2-B CF531-D2-B CF531-D2-B			Option	al Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
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Devu, the Dumb G Find The Bone Regular Bracket S Indox (100500) Different is Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword Cows and Poker G Find Marble Interesting drink Megacity Beautiful Paintings Ilya and Queries Code Parsing Hungry Sequence Chloe and the seq Luxurious Houses Settlers' Training Far Relative's Prot Wilbur and Array Text Document An Shower Line Misha and Changil Coat of Anticubism Termary Logic Counting Rhombi Pashmak and Flow	CF439-D2-B CF796-D2-B CF796-D2-B CF672-D12-B CF672-D2-B CF672-D2-B CF259-D2-B CF37-D2-B CF381-D2-B			Option	al Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
Devu, the Dumb G Find The Bone Regular Bracket S Indox (100500) Different is Good Permutation Little Elephant and Airport Cormen The Be Prison Transfer A and B and Comp Letter Game of Robots African Crossword Cows and Poker G Find Marble Interesting drink Megacity Beautiful Paintings Ilya and Queries Code Parsing Hungn Sequence Chloe and the seq Luxurious Houses Settlers' Training Far Relative's Prot Wilbur and Array Text Document An Shower Line Misha and Changii Coat of Anticubism Ternary Logic Counting Rhombi Pashmak and Flov The Monster and t	CF439-D2-B CF796-D2-B CF796-D2-B CF459-D2-B CF32-D2-B CF332-D2-B CF596-D2-B			Option	al Problems			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			couraged to	Before moving to another sheet, email me with feedback about these problems selection. solve the next problem. If you felt you need so, try some of them. Or Proceed to next and solve Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)
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AC Averages => CF686-D2-B CF133-D2-B CF127-D2-B	0	0	0	0							About your approach
CF133-D2-B				•	0	0	0	0	0	0	0
							0				
CF127-D2-B							0				
							0				
CF554-D2-B							0				
CF408-D2-B							0				
CF362-D2-B							0				
CF545-D2-B							0				
CF677-D2-B							0				
CF304-D2-B							0				
CF507-D2-B							0				
CF289-D2-B							0				
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CF387-D2-B							0				
CF740-D2-B							0				
CF735-D2-B							0				
CF104-D2-B							0				
CF701-D2-B							0				
CF552-D2-B							0				
CF474-D2-B							0				
CF59-D2-B							0				
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CF192-D2-B							0				
CF366-D2-B							0				
CF298-D2-B							0				
CF389-D2-B							0				
CF591-D2-B							0				
CF246-D2-B							0				
CF682-D2-B							0				
CF58-D2-B							0				
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CF416-D2-B							0				
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CF489-D2-B							0				
CF478-D2-B							0				
CF94-D2-B							0				
CF625-D2-B							0				
CF330-D2-B							0				
CF92-D2-B							0				
CF4-D2-B							0				
CF9-D2-B							0				
CF508-D2-B							0				
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	F362-D2-B F545-D2-B F545-D2-B F507-D2-B F507-D2-B F507-D2-B F507-D2-B F740-D2-B F740-D2-B F735-D2-B F704-D2-B F502-D2-B F503-D2-B F503-D2-B F504-D	F362-D2-B F545-D2-B F677-D2-B F677-D2-B F677-D2-B F507-D2-B F589-D2-B F789-D2-B F735-D2-B F735-D2-B F704-D2-B F704-D2-B F552-D2-B F552-D2-B F552-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B F594-D2-B F594-D2-B F682-D2-B F683-D2-B F683-D2-B F684-D2-B F645-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B F655-D2-B	F362-D2-B F545-D2-B F545-D2-B F577-D2-B F5304-D2-B F507-D2-B F5304-D2-B F528-D2-B F740-D2-B F740-D2-B F735-D2-B F7104-D2-B F755-D2-B F7104-D2-B F755-D2-B F7	F362-D2-B F545-D2-B F577-D2-B F507-D2-B F507-D2-B F528-D2-B F728-D2-B F735-D2-B F735-D2-B F704-D2-B F704-D2-B F552-D2-B F552-D2-B F552-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B F593-D2-B F594-D2-B F594-D2-B F594-D2-B F594-D2-B F594-D2-B F594-D2-B F586-D2-B F5862-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B F592-D2-B	F362-D2-B F545-D2-B F577-D2-B F507-D2-B F507-D2-B F289-D2-B F749-D2-B F749-D2-B F704-D2-B F704-D2-B F552-D2-B F552-D2-B F552-D2-B F59-D2-B	F362-D2-B F545-D2-B F577-D2-B F5304-D2-B F507-D2-B F5304-D2-B F5304-D2-B F740-D2-B F740-D2-B F740-D2-B F740-D2-B F755-D2-B F755-D2-B F7104-D2-B F755-D2-B F7	F362-D2-B F545-D2-B F577-D2-B F5304-D2-B F507-D2-B F5304-D2-B F528-D2-B F740-D2-B F740-D2-B F7104-D2-B F7104-D	Color	F545-D2-B	F645-D2-B	F645-D2-B F645-D2-B F677-D2-B F688-D2-B F748-D2-B F688-D2-B F688-D

Problem Name	Problem Code	Status		Reading	Thinking	Coding	Debug Time(m)	Total	Problem	By	Category	1-2 line Comments
	AC Averages =>	0	Count 0	Time(m)	Time(m)	Time(m)	Time(m)	Time(m)	Level /10	yourself?	0	About your approach
	AC Averages =>	U		U	U	U	U		U	U		DON'T Skip colored problems. Don't skip others unless a block is really easy for you Remove the given link and write a comment. Start your comment with a classification for the problem: Useless, repeated idea, boring, normal, good problem, interesting problem or
Drazil and Factorial	CE515 D2 C							0				Important problem. Video Solution - Dr Mostafa Saad
Lucky Permutation								0				Video Solution - Di Wostala Saad
Soldier and Cards								0				
Watchmen	CF651-D2-C							0				
								0				
								0				Watch - Thinking - Concretely - Symbolically - Pictorially
								0				Watch - Thinking - Problem Constraints
								0				Watch - Number Theory - Primes
Fox Dividing Chees	s <u>CF371-D2-B</u>							0				Video Solution - Eng Abanob Ashraf
Duff in Love	CF588-D2-B							0				
Twin Primes	UVA 10394							0				
Summation of Four								0				Video Solution - Eng Moaz Rashad
	UVA 10325							0				Sol
	CF371-D2-C							0				
	UVA 10717							0				Sol
BITMAP - Bitmap								0				
	UVA 12952 CODECHEF GCDM							0				Sol usesint128 to avoid overflow
	UVA 10843							0				Theory result to read
The Child and Set								0				
Tanya and Postcar								0				
	CF548-D2-B							0				
1 011								0				
Greg and Array	CF296-D2-C							0				
The World is a The								0				Video Solution - Eng Youssef Ali
	<u>CF88-D2-C</u>							0				Video Solution - Solver to be (Java)
Semifinals	CF378-D2-B							0				
Towers	CF479-D2-B							0				
Gerald is into Art	CF560-D2-B							0				
								0				Watch - Algebra - Number Bases and Polynomials
To Carry or not to 0								0				Sol
Beat the Spread!	UVA 10812							0				
0 " (0.1	104 4000							0				
Summation of Poly								0				
Polly the Polynomia	UVA 11053							0				Find O(n) Solution
	LiveArchive 8078							0				Sol Solution
	LIVEAICHIVE 6076							0				Watch - Algebra - Patterns in Sequences
R U Kidding Mr. Fe	UVA 10509							0				
Wandering Queen								0				Sol to read
Spreadsheet	UVA 196							0				
	HACKR sherlock-an							0				Sol
								0				Watch - Algebra - Summations
								0				Watch - Algebra - Basic Matrix Operations
Searching for Grap								0				
Flying Saucer Segr								0				
Vasya and Petya's								0				
Round Table Knigh								0				
	CF580-D2-C							0				Video Solution - Solver to be (Java)
Knight Tournament Special Offer! Supe								0				
Special Offer! Supe	CF219-D2-B							0				Watch - Thinking - Problem Abstraction
								0				Watch - Thinking - Problem Abstraction Watch - Thinking - Problem Reverse
								0				Watch - Search Techniques - Backtracking
Graph Coloring	UVA 193							0				Video Solution - Dr Mostafa Saad
	UVA 10344							0				Video Solution - Eng Mohamed Nasser
8 Queens Chess P								0				Video Solution - Eng Ayman Salah
Assemble	UVA 12124							0				Sol
	SPOJ FUNPROB							0				Sol
								0				
_	CF424-D2-C							0				
Pythagorean Triple								0				
Gerald's Hexagon								0				
	CF252-D2-C							0				
	<u>CF353-D2-C</u>							0				
Jzzhu and Sequeno								0				
	CF570-D2-B							0				
Prime Matrix	<u>CF271-D2-B</u>							0				Review bitmasking
								0				Watch - DP - Subset Style
Vacation	UVA 10192							0				Explained in the tutorial videos
	UVA 10192 UVA 562							0				Explained in the tutorial videos Video Solution - Eng Ayman Salah
	0 4 N 302							0				Watch - DP - Consecutive Ranges Style
Dividing coins								0				
	SRM149-D1 500							0				
	SRM149-D1-500 SRM536-D2-1000											
	SRM536-D2-1000							0				
The Blocks Probler	SRM536-D2-1000 n <u>UVA 101</u>							0				
The Blocks Probler Divisibility	SRM536-D2-1000											Sol
The Blocks Probler Divisibility	SRM536-D2-1000 n <u>UVA 101</u> <u>UVA 10036</u>							0				Sol
The Blocks Probler Divisibility	SRM536-D2-1000 n UVA 101 UVA 10036 UVA 11628							0				Sol
The Blocks Probler Divisibility	SRM536-D2-1000 n UVA 101 UVA 10036 UVA 11628							0 0 0				Sol
The Blocks Probler Divisibility Rational Resistance	SRM536-D2-1000 IVVA 101 UVA 10036 UVA 11628 XCF344-D2-C t CF275-D2-C							0 0 0				Sol Sol

Problem Name	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
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0
Playing Cubes	<u>CF257-D2-B</u>							0				
T-primes	CF230-D2-B							0				
								0				Watch - DP - Nested Ranges Style Watch - DP - General Ranges Style
Creating Palindrom	UVA 11753							0				Video Solution - Eng Aya Elymany
Again Palindrome								0				Sol to read
Exploring Pyramids								0				Video Solution - Eng Ayman Salah
Cutting Sticks	UVA 10003							0				
Optimal Array Multi								0				Sol Video Solution For Many Dechard
Accordian Patience Software CRC	UVA 128							0				Video Solution - Eng Moaz Rashad Video Solution - Eng Moaz Rashad
Continuit Onto	ZOJ 1200							0				THE SOLUTION AND THE STATE OF T
								0				
Maze	CF378-D2-C							0				
Thor	CF705-D2-C							0				
Hard problem	CF706-D2-C							0				
Unusual Product Palindrome Transfo	CF405-D2-C							0				
Removing Columns								0				Video Solution - Dr Mostafa Saad
Crazy Town	CF499-D2-C							0				Video Solution - Dr Mostafa Saad
Queue	CF490-D2-B							0				
Vika and Squares								0				
Cosmic Tables	<u>CF222-D2-B</u>							0				Madely Thinking Incompatible
								0				Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpretation
								0				Watch - Number Theory - Factorization
Prime Factors	UVA 583							0				
Mr. Azad and his S	<u>UVA 10490</u>							0				Sol to read
Perfect P-th Power								0				<u>Video Solution - Eng Moaz Rashad</u>
Prime Land	UVA 516							0				
	UVA 10920 SRM274-D1-500							0				
	SRM274-D1-500							0				
Text Editor	CF253-D2-C							0				
Alternative Thinking								0				
Tennis Champions	CF735-D2-C							0				
Guess Your Way C								0				<u>Video Solution - Dr Mostafa Saad</u>
Biathlon	CF84-D2-C							0				
Marina and Vasya Divide by Three								0				Video Solution - Solver to be (Java)
	CF534-D2-B							0				video Solution - Solver to be (Java)
Facetook Priority V								0				
	CF979-D2-B							0				
								0				
How Many Points of								0				Sol
Factovisors	UVA 10139							0				Sol to read
Fractions Again?! Cut Ribbon	CF189-D2-A							0				Sol to read Video Solution - Solver to be (Java)
Odt (dbbol)	<u>01 103 D2 A</u>							0				VIGEO CONDITION CONTROL TO BE (USAVA)
								0				Watch - Probability - First 9 videos
Cows and Cars	UVA 10491							0				Revise Probability
What is the Probab								0				<u>Sol</u>
Let's Dance	UVA 10218							0				<u>Sol</u>
Probability Given Another lottery	UVA 11181 UVA 11628							0				Sol Sol
Airplane	UVA 12461							0				Sol to read
	HACKR tower-3-col	9						0				Learn Fermat's little theorem
	<u>CF445-D2-C</u>							0				
	HACKR a-circle-and	1						0				
Donkir	UVA 11573							0				Learn 0/1 BFS
Rankings	<u>UVA 12263</u>							0				<u>Sol</u>
Hacker, pack your	CF822-D2-C							0				Video Solution - Solver to be (Java)
The Meaningless G								0				Video Solution - Solver to be (Java)
Star sky	CF835-D2-C							0				Video Solution - Solver to be (Java)
								0				Before moving to another sheet, email me with feedback about these problems selection.
								0	Vou de et	we to	nouroe a d /	actual the part problem. If you felt you need so the same of the s
				Optiona	I Problems			0	you don't ha	allel, up to y	ou.	solve the next problem. If you felt you need so, try some of them. Or Proceed to next and
	_							0				
Diverse Permutation												
	CF483-D2-C							0				
Replacement	CF136-D2-C							0				
Replacement Homework	CF136-D2-C CF102-D2-C							0				
Replacement Homework Little Elephant and	CF136-D2-C CF102-D2-C CF221-D2-C							0				
Replacement Homework Little Elephant and Developing Skills	CF136-D2-C CF102-D2-C CF221-D2-C CF581-D2-C							0 0 0				
Replacement Homework Little Elephant and	CF136-D2-C CF102-D2-C CF221-D2-C CF581-D2-C CF262-D2-C							0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discour	CF136-D2-C CF102-D2-C CF221-D2-C CF581-D2-C CF262-D2-C							0 0 0 0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discour Fox and Box Accur Ice Skating Valera and Tubes	CF136-D2-C CF102-D2-C CF221-D2-C CF581-D2-C CF262-D2-C CF389-D2-C CF218-D2-C CF441-D2-C							0 0 0 0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discoul Fox and Box Accur Ice Skating Valera and Tubes Secret	CF136-D2-C CF102-D2-C CF221-D2-C CF221-D2-C CF262-D2-C CF262-D2-C CF218-D2-C CF218-D2-C CF2141-D2-C CF271-D2-C							0 0 0 0 0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discour Fox and Box Accur Ice Skating Valera and Tubes Secret Key Task	CF136-D2-C CF102-D2-C CF221-D2-C CF581-D2-C CF589-D2-C CF389-D2-C CF218-D2-C CF441-D2-C CF271-D2-C SPOJ CERCO7K							0 0 0 0 0 0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discoul Fox and Box Accur Ice Skating Valera and Tubes Secret	CF136-D2-C CF102-D2-C CF221-D2-C CF221-D2-C CF262-D2-C CF262-D2-C CF218-D2-C CF218-D2-C CF2141-D2-C CF271-D2-C							0 0 0 0 0 0 0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discou Fox and Box Accur Ice Skating Valera and Tubes Secret Key Task Cleaning Robot	CF136-D2-C CF102-D2-C CF221-D2-C CF591-D2-C CF591-D2-C CF262-D2-C CF399-D2-C CF218-D2-C CF441-D2-C CF271-D2-C SPOJ CERCO7K SPOJ CLEANRBT							0 0 0 0 0 0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discour Fox and Box Accur Ice Skating Valera and Tubes Secret Key Task	CF136-D2-C CF102-D2-C CF221-D2-C CF591-D2-C CF591-D2-C CF262-D2-C CF399-D2-C CF218-D2-C CF441-D2-C CF271-D2-C SPOJ CERCO7K SPOJ CLEANRBT							0 0 0 0 0 0 0 0 0 0				
Replacement Homework Little Elephant and Developing Skills Maxim and Discour Fox and Box Accur toe Skatting Valera and Tubes Secret Key Task Cleaning Robot They Are Everywhr	CF136-D2-C CF102-D2-C CF201-D2-C CF262-D2-C CF262-D2-C CF218-D2-C CF218-D2-C CF211-D2-C SPOJ CERCO7K SPOJ CLEANRBT CF701-D2-C CF16-D2-C CF16-D2-C							0 0 0 0 0 0 0 0 0 0 0				

Problem Name	Problem Code	Status	Submit	Reading	Thinking	Coding	Debug	Total	Problem Level /10	Ву	Category	1-2 line Comments About your approach
	AC Averages =>	0	O	Time(m)	0	Time(m)	Time(m)	Time(m)	0	yourself?	0	o
NP-Hard Problem		U	U	U	U	U	U	0	U	U	U	
Vladik and fractions								0				
Case of Matryoshka								0				
Vanya and Label								0				
-	CF479-D2-C							0				
	CF456-D2-C							0				
Learning Language								0				
Beautiful Sets of Po								0				
Deautiiui Sets of Po	CF200-DZ-C							0				
Strategic Defense I	LIVA 407							0				Explained in the tutorial videos
String to Palindrom								0				Explained in the tutorial videos Explained in the tutorial videos
Trouble of 13-Dots								0				Explained in the totolial videos
Sagheer and Nubia								0				Video Solution - Solver to be (Java)
	CF330-D2-C							0				video Solution - Solver to be (Java)
Division into Teams								0				
	CF149-D2-C CF49-D2-C							0				
· ·								0				
Mashmokh and Nu								0				
	CF129-D2-C							0				
Inna and Huge Car												
	CF144-D2-C							0				
	CF525-D2-C							0				
Day at the Beach	CF599-D2-C							0				
								0				
Appleman and Toa								0				Sol
Anya and Smartpho								0				
Little Girl and Maxin								0				
Sereja and Algorith								0				
The Child and Toy								0				
	CF318-D2-C							0				
Another Problem or								0				
	CF731-D2-C							0				
Valera and Election	CF369-D2-C							0				

Problem Name	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
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0
								0				Watch - Thinking - Search Space and Output Analysis
								0				Watch - Thinking - Observations Discovery
								0				Watch - Game Theory - Intro
Win or Freeze	CF151-D2-C							0				<u>Video Solution - Dr Mostafa Saad</u>
	UVA 10368							0				Video Solution - Eng Moaz Rashad
Pyramids	SPOJ PIR							0				Sol
Power of Cryptograp	UVA 113							0				Sol to read
	SRM458-D2-500							0				
Is There A Second V	UVA 10462							0				
	SRM381-D2-1000							0				
								0				
Modified GCD	CF75-D2-C							0				<u>Video Solution - Dr Mostafa Saad</u>
Alyona and mex	CF740-D2-C							0				Video Solution - Dr Mostafa Saad
Hamburgers	CF371-D2-C							0				
Wet Shark and Flow	CF621-D2-C							0				
Predict Outcome of t	CF451-D2-C							0				
Balls and Boxes	CF260-D2-C							0				Video Solution - Dr Mostafa Saad
Alice and Bob	CF347-D2-C							0				<u>Video Solution - Eng Mohamed Nasser</u>
Mahmoud and Ehab	CF959-D2-C							0				<u>Video Solution - Eng Mohamed Salah</u>
Almost Equal	CF1206-D2-C							0				<u>Video Solution - Dr Mostafa Saad</u>
	CF1220-D12-C							0				
	CF1065-D2-C							0				
	CF1036-D2-C							0				
	CF1068-D2-C							0				
	CF313-D2-C							0				
Balls Game	CF430-D2-B							0				
Magical Array	CF84-D2-B							0				
								0				Watch - Thinking - Misc - Solution Verification - Implementation
								0				Watch - Graph Theory - Dijkstra
Jugs	UVA 571							0				Video Solution - Dr Mostafa Saad
	UVA 10986							0				
	UVA 10801							0				
	SPOJ SHOP							0				
Ordering	UVA 872							0				
	CF1064-D2-C							0				
	CF1059-D2-C							0				
	CF101933-GYM-K							0				Sol
	CF816-D2-B							0				Video Solution - Dr Mostafa Saad
Raich and Conce	<u> </u>							0				VIGCO GOIGIGN EDI WIOSIANA GARA
Bulls and Cows	CF63-D2-C							0				<u>Sol</u>
	CF430-D2-C							0				301
Xor-tree Median Smoothing	CF591-D2-C							0				
Coloring Trees	CF711-D2-C							0				Video Solution - Solver to be
	CF202-D2-C							0				video Solution - Solver to be
	CF1237-D12-C2							0				
Sereja and Mirroring								0				
Restoring Painting								0				
Restoring Familing	СР0/3-02-Б							0				
								0				Watch - Computational Geometry - Lines Intersections
Gleaming the Cubes	LIV/A 727							0				
								0				<u>Sol</u>
Intersecting Line Se	UVA 600							0				Sol Watch - Computational Geometry - Circles
The Circumference	LIV/A 420							0				
Points in Figures: Re								0				Sol Sol
								0				Sol Colta and
Square Pegs And Ro								0				Sol to read
	UVA 453											Learn Handling Precisions
Divisibility of Factors								0				Sol to read
	SRM436-D2-500											
	CF975-D2-C							0				
	CF1047-D2-C							0				
	CF1075-D2-C							0				
	CF758-D2-C							0				Visites Call Management in Calley
	UVA 10525							0				Video Sol. Also solvable in 2 other ways.
D: 5	05404 55 5							0				
Prime Permutation								0				
Hometask	CF155-D2-C							0				
	CF148-D2-C							0				Video Solution - Eng Mohamed Nasser
	CF490-D2-C							0				
Dreamoon and Sum:								0				Video Solution - Dr Mostafa Saad
,	CF195-D2-C							0				Editorial - Eng Ahmed Osama
Primes or Palindrom								0				
	CF257-D2-C							0				Editorial - Eng Ahmed Osama
Little Pony and Sort	CF454-D2-B							0				
								0				Watch - Thinking - Error Inspection - History - Contest Strategy
								0				Watch - DP - Building Output
Unidirectional TSP	UVA 116							0				
Make Palindrome	UVA 10453							0				Sol
	UVA 662							0				
Palindromic Subsequ								0				
	UVA 757							0				Sol to read
	CF199-D2-B							0				
	UVA 10301							0				Sol
Rings and Glue								0				Watch - DP - Counting
Rings and Glue												
								0				
k-Tree	CF431-D2-C CF118-D2-D											Video Solution - Solver to be (Java)

Problem Name	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
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0
DiceGames	SRM349-D1-500							0				
	SPOJ TWINSNOW SPOJ FACENEMY							0				Sol - text clarification Sol
	SPOJ FACEINEIVIT							0				501
No to Palindromes!	CF465-D2-C							0				
Triangle	CF408-D2-C							0				
To Add or Not to Add	CF231-D2-C							0				
Number of Ways	CF466-D2-C							0				Video Solution - Solver to be (Java)
Queue	CF141-D2-C							0				
Magical Boxes	<u>CF270-D2-C</u>							0				
Find Pair	CF160-D2-C							0				
Multitasking Non-square Equatio	CF384-D2-B							0				
Non-square Equation	<u> </u>							0				Watch - Thinking - Let's Put All Together
								0				Watch - DP - Table Method
								0				Watch - Graph Theory - Floyd Warshal
Frogger	UVA 534							0				Sol
Identifying Concurre								0				
	UVA 125							0				Sol
Jack Straws	UVA 273							0				<u>Sol</u>
Longest Match Isolated Segments	UVA 10100 UVA 11343							0				<u>Sol</u>
Counting	UVA 10198							0				Needs Big Integer. Have it in your cpp library or learn Java for these (rare) cases
<u> </u>								0				
Mafia	CF349-D2-C							0				
Sereja and Prefixes								0				
About Bacteria	CF199-D2-C							0				
DNA Alignment	CF520-D2-C							0				
Geometric Progressi Watering Flowers	<u>CF567-D2-C</u> <u>CF617-D2-C</u>							0				
Quiz	CF337-D2-C							0				
Secret Combination								0				
MUH and Important								0				
Lucky Mask	<u>CF146-D2-B</u>							0				
								0				
								0				Watch - Measuring Algorithms Perfromance - 2
DT077	000107077							0				Watch - Graph Theory - Tree Diameter and Isomorphism
PT07Z	SPOJ PT07Z							0				<u>Sol</u>
Roads in the North	LIVEARCHIVE 2935							0				Sol Sol
Cubiray and dyolom	EIVEN ITOM VE 2000							0				
Shaass and Lights	CF294-D2-C							0				Video Solution - Dr Mostafa Saad
Journey	CF721-D2-C							0				
Captain Marmot	<u>CF474-D2-C</u>							0				Video Solution - Dr Mostafa Saad
The Big Race	CF592-D2-C							0				
Molly's Chemicals Anatoly and Cockroa								0				Video Solution - Solver to be (Java)
Opposites Attract								0				
								0				
Railway	UVA 10263							0				Sol to read
Factorial Factors	UVA 884							0				
Wifi Access	UVA 12748							0				Sol
Lining Up Pouring water	UVA 270 SPOJ POUR1							0				<u>Video Solution - Eng Mohamed Nasser. Don't Code O(N^3)</u> Video Solution - Eng Moaz Rashad
. Jung water	<u>CF23-D12-C</u>							0				
	<u>CF869-D2-C</u>							0				
	SRM321-D1-500							0				See Rushiose's code in arena summary
								0				
								0				Watch Video - Expected Value
God, Save me	UVA 10777							0				<u>Sol</u>
	CF839-D2-C CF454-D2-C							0				
	SRM577-D1-250							0				Editorial
	HACKR lazy-sorting							0				Revise Expected Value
	SPOJ ALIENS							0				Sol - Practice on min enclosing circle
	<u>CF340-D2-B</u>							0				
								0				Before moving to another sheet, email me with feedback about these problems selection.
								0	Vou don't b	avo to or ca	couraged to	solve the next problem. If you felt you need so, try some of them. Or Proceed to next and
				Optiona	al Problems			0	solve in par	allel, up to y	you.	- Solve are next problem. If you reit you need so, by some of them. Of Proceed to flext and
								0				
Checkposts	CF427-D2-C							0				
Literature Lesson Arpa's loud Owf and	CF139-D2-C							0				
Parity Game	CF742-D2-C CF298-D2-C							0				
	CF246-D2-C							0				
Heroes	CF80-D2-C							0				
1101000								0				
Dynasty Puzzles	CF192-D2-C							0				
Dynasty Puzzles Buns	CF106-D2-C											
Dynasty Puzzles Buns Counting Kangaroos	CF106-D2-C CF373-D2-C							0				
Dynasty Puzzles Buns Counting Kangaroos Corporation Mail	CF106-D2-C CF373-D2-C CF56-D2-C							0				
Dynasty Puzzles Buns Counting Kangaroos Corporation Mail Matrix	CF106-D2-C CF373-D2-C CF56-D2-C CF365-D2-C							0				Sal
Dynasty Puzzles Buns Counting Kangaroos Corporation Mail	CF106-D2-C CF373-D2-C CF56-D2-C							0				Sol
Dynasty Puzzles Buns Counting Kangaroos Corporation Mail Matrix	CF106-D2-C CF373-D2-C CF56-D2-C CF365-D2-C UVA 11686							0 0 0				Sol

Problem Name	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
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0
Vasya and Robot	CF355-D2-C							0				
Hockey	CF96-D2-C							0				
Petya and File Syste	CF66-D2-C							0				
Kyoya and Colored	CF554-D2-C							0				
George and Job	CF467-D2-C							0				
Harmony Analysis	CF610-D2-C							0				
Anton and Making P	CF734-D2-C							0				
Table Decorations	CF478-D2-C							0				
Recycling Bottles	CF672-D2-C							0				
								0				
Message	CF157-D2-C							0				
Wilbur and Points	CF596-D2-C							0				
Cows and Sequence	CF284-D2-C							0				
Ladder	CF279-D2-C							0				
Not Wool Sequence	CF239-D2-C							0				
Anagram	CF254-D2-C							0				
DZY Loves Sequence	CF447-D2-C							0				
DZY Loves Physics	CF445-D2-C							0				
Misha and Forest	CF501-D2-C							0				
Jzzhu and Chocolate	CF450-D2-C							0				
Cinema	CF670-D2-C							0				
								0				
Report	CF631-D2-C							0				
Bear and Prime Nur	CF385-D2-C							0				
Robbery	CF90-D2-C							0				
Vasya and Basketba	CF493-D2-C							0				
Vanya and Scales	CF552-D2-C							0				
Pashmak and Buses	CF459-D2-C							0				
Fancy Number	CF118-D2-C							0				

Problem Name	Brohlem Code	Status	Submit	Reading	Thinking	Coding	Debug	Total	Problem	Ву	Cotogogy	1-2 line Comments
- Toblem Name	Problem Code		Count	Time(m)	Time(m)	Time(m)	Time(m)	Time(m)	Level /10	yourself?	Category	About your approach
Dividing Island	AC Averages => CF63-D2-D	0	0	0	0	0	0	0	0	0	0	0
Flowers	<u>CF474-D2-D</u>							0				Video Solution - Solver to be (Java)
Dima and Bacteria								0				VIGEO CONTROL TO SE (SUVE)
Dima and Daotona	CF1043-D12-C							0				
	CF1033-D12-C							0				
	CF1066-D3-E							0				
	<u>CF534-D2-D</u>							0				
	CF899-D2-E							0				
	CF729-D12-D							0				
	<u>CF340-D2-C</u>							0				
Lorenzo Von Matter								0				
Restore Graph	CF404-D2-C							0				
	CF309-D1-C CF101-D1-B	-						0				Sol
	SRM569-D2-1000							0				301
	CF961-D12-D							0				
	CF955-D2-C							0				
	UVA 12869							0				Sol
	<u>CF372-D1-B</u>							0				
								0				Watch - Data Structures - Segment Tree (2 vid)
	<u>UVA 12532</u>							0				
Potentiometers	LIVEARCHIVE 2191							0				
Halt The War	SPOJ CDC12_H							0				
Counting Primes Horrible Queries	SPOJ CNTPRIME SPOJ HORRIBLE							0				
Light Switching	SPOJ LITE							0				
Circular RMQ	<u>CF52-D12-C</u>							0				
A Famous City	SPOJ CITY2							0				Sol
	UVA 12299							0				See sscanf and sprintf usage
R2D2 and Droid Arr								0				Use rmq
Ahoy, Pirates!	UVA 11402							0				Sol
Brackets	SPOJ BRCKTS							0				Sol
Present	CF460-D2-C							0				
MessageMess	SRM149-D1-500	_						0				
<u>DiceGames</u>	SRM349-D1-500							0				
Mirror, Mirror	UVA 466							0				
Maximum Sum	SPOJ KGSS SRM297-D1-500							0				
	SRM441-D1-250							0				
	CF201-D1-B							0				
	CF380-D1-C							0				
	CF161-D12-D							0				Reading: DP on Trees
	CF61-D2-E							0				
	SPOJ KOMPICI							0				
								0				
	CF151-D2-D							0				
Eternal Victory	CF61-D2-D							0				Video Solution - Solver to be (Java)
Array Division	<u>CF808-D2-D</u> <u>CF45-D12-D</u>							0				video Solution - Solver to be (Java)
	SRM428-D2-1000							0				
	SGU 321							0				Sol
	CODECHEF OPPOSIT							0				
	SRM513-D2-1000							0				
	SRM292-D1-500							0				
	SRM405-D2-1000							0				
Hiring Staff	CF216-D2-C							0				
Tavas and Karafs Permutations	CF535-D2-C CF189-D2-C							0				<u>Sol</u>
- GillutatiOHS	0. 103-02-0							0				Watch - Two pointers technique
Spider's Web	CF216-D2-D							0				
Chips	CF334-D2-D							0				
Vasya and String	CF676-D2-C							0				
The SetStack Comp								0				Sol
Database	UVA 1592							0				
Can you answer the								0				Sol
	SPOJ BILLIARD							0				Sol
Can you answer the								0				0-1
	SPOJ ABA12E UVA 11825							0				Sol Sol
	UVA 11825 CF472-D12-D							0				<u>Sol</u>
	UVA 12325							0				Prove your Solution
	UVA 12047							0				Sol Solution
	UVA 10705							0				Sol
	<u>UVA 1555</u>							0				Sol
	<u>CF80-D2-D</u>							0				
								0				
Mahmoud and a Did								0				Video Solution - Solver to be (Java)
An overnight dance								0				<u>Video Solution - Solver to be (Java)</u>
Polyline	CF617-D2-D							0				
Queue	CF92-D2-D							0				
	CF1038-D2-D CF552-D2-D							0				
	CF101917-D12-E							0				
	CF1058-D2-D							0				
	5. 1000-DZ-D							U				

Problem Name	Problem Code	Status	Submit	Reading	Thinking	Coding	Debug Time(m)	Total	Problem	By	Category	1-2 line Comments
	AC Averages =>	0	Count	Time(m)	1 ime(m)	1 ime(m)	1 ime(m)	1 ime(m)	Level /10 0	yourself?	0	About your approach 0
	<u>CF1042-D12-D</u>							0				
	SPOJ BIA							0				Sol
Plant Reberland Linguistic	CF186-D2-C							0				
Lucky Permutation								0				
								0				DP - Probability
	UVA 10759							0				Sol
TestBettingStrategy Collecting Bugs	PKU 2096							0				<u>Sol</u>
	UVA 542							0				Sol
	<u>UVA 11021</u>							0				Sol
	UVA 12457							0				Sol
Water Falls Number Sequence	UVA 833							0				
	UVA 615							0				
	SPOJ HELPR2D2							0				
	<u>CF1016-D2-E</u>							0				
	UVA 11997 FbHkrCup 18-R1-A							0				<u>Sol</u>
	SRM456-D2-1000							0				
								0				
Andrey and Problem								0				Sol
Three Logos Good Sequences	CF581-D2-D CF265-D2-D							0				
	CF116-D2-C							0				
Cupboard and Ballo	CF342-D2-C							0				
Cycles	<u>CF233-D2-C</u>							0				
Pebble Solitaire	UVA 10651							0				DP - Masks (2 vid)
	CF580-D2-D							0				Video Solution - Solver to be
Permutations	SPOJ PERMUT1							0				
	SPOJ ASSIGN							0				
	<u>CF16-D2-E</u> <u>UVA 10178</u>							0				Read first Euler Formula
	UVA 10892							0				Read HIST Ediel Formula
Robot Rapping Res								0				
	<u>UVA 10534</u>							0				Sol
	CF1012-D1-A							0				C-1
	UVA 10342							0				Sol - read the statement clarification
Directed Roads	CF711-D2-D							0				
	CF327-D2-D							0				
A and B and Interes								0				
As Fast As Possible Chloe and pleasant								0				
Roads in Berland								0				
	<u>CF203-D2-C</u>							0				
LCM Challenge	<u>CF236-D2-C</u>							0				Chiles Decreasing Tri-
Search in the diction	SPOJ DICT							0				String Processing - Trie
	UVA 1556							0				
	SPOJ PHONELST							0				
Cellphone Typing								0				
Vasiliy's Multiset Exchange Rates	<u>CF706-D2-D</u> <u>UVA 10113</u>							0				
	UVA 727							0				
Safe	<u>CF47-D2-D</u>							0				
Central Post Office								0				Sol
Permalex	<u>UVA 153</u>							0				Sol DP - Sub-rectangle style
	UVA 507							0				s. sus-restangle style
	UVA 10667							0				
								0				
	<u>CF96-D2-D</u> <u>CF606-D2-D</u>							0				
Multiplication Table								0				Video Solution - Solve to be (Java)
	<u>CF486-D2-D</u>							0				
	CF1040-D2-D							0				
	CF264-D1-C							0				
	CF506-D1-A CODECHEF KSUM							0				
	CF623-D1-B							0				
Divisible by Seven	<u>CF376-D2-C</u>							0				
Devu and Partitionin								0				
Arthur and Table	CF557-D2-C							0				

			Submit	Reading	Thinking	Coding	Debug	Total	Problem	Rv		1.2 line Comments
Problem Name	Problem Code	Status	Count	Time(m)	Time(m)	Time(m)	Time(m)	Time(m)	Level /10	By yourself?		1-2 line Comments About your approach
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	Order Proceeding (KMP (Orde))
Outine	PKU 3461							0				String Processing - KMP (2 vid)
Oulipo A Needle in the Ha								0				
Finding the Tesser								0				
Period	SPOJ PERIOD							0				
Prefixes and Suffix								0				
Tavas and Maleka								0				
	UVA 11155							0				0-1
	SPOJ PT07X CF54-D12-C	-						0				<u>Sol</u>
	<u>CF500-D12-D</u>							0				
	HACKR vertical-sticks							0				
	UVA 10174							0				
	UVA 1333							0				Sol - Text/Background Clarification
	<u>CF842-D2-D</u>							0				
	CF709-D2-D SPOJ MSKYCODE							0				Pol
	LiveArchive 8015							0				Sol Sol
	LIVE/AIGHIVE 00 10							0				<u>551</u>
Robin Hood	CF672-D2-D							0				
End of Exams	<u>CF94-D2-D</u>							0				
Equivalent Strings								0				Sol to learn
Count Good Subst								0				
Mushroom Scientis								0				
Analyzing Polyline	<u>CF195-D2-D</u> <u>CF1023-D12-E</u>							0				
	CF1060-D12-C							0				
Bear and Prime 10								0				
	CF401-D2-C							0				
								0				DP - Games (2 vid)
	UVA 10404							0				Sol
	SRM534-D1-250							0				
	SRM522-D1-250 SRM228-D1-500							0				
	CF148-D2-D							0				
	<u>CF1147-D1-B</u>							0				
MELE3	SPOJ MELE3							0				Sol
	SPOJ ROADS							0				<u>Sol</u>
	UVA 10459							0				Sol
	UVA 1232							0				<u>Sol</u>
Ordering the Soldie Playlist	<u>CF268-D2-E</u>	-						0				Sol Sol
	SRM481-D1-500							0				
								0				
Little Girl and Maxi	CF276-D2-D							0				See editorials
	<u>CF224-D2-D</u>							0				Sol
Big Maximum Sum								0				
	SPOJ BRCKTS2 CF1057-D12-C							0				<u>Sol</u>
	CF1066-D3-F							0				
	CF1064-D2-E							0				
	CF459-D2-E							0				
	UVA 10888							0				
	<u>CF1043-D12-D</u>							0				
Football Champion								0				
Given Length and	GF489-DZ-C							0				
Trip Routing	UVA 186							0				Sol
Scheduling Lecture								0				Sol
Weird Function	SPOJ WEIRDFN							0				Sol
The ? 1 ? 2 ? ?								0				
Dictionary Subseq								0				Sol
Jimmi's Riddles								0				Sol
Friends and Subse								0				Sol
Sum of Squares w Travel in Desert	SPOJ SEGSQRSS UVA 10816							0				Sol Sol
Almost Union-Find								0				Sol
	SRM537-D2-1000							0				_
	<u>CF513-D12-C</u>							0				Sol
	SRM453.5-D2-1000							0				
	SPOJ PARSUMS							0				Sol
	<u>CF1138-D2-D</u>							0				
Cow Program	<u>CF284-D2-D</u>							0				
	CF431-D2-D							0				
	CF296-D2-D							0				
Russian Roulette								0				
	CF659-D2-D							0				
Greenhouse Effect	CF270-D2-D							0				
	CF645-D12-D							0				
	CF459-D2-C							0				
	CODECHEF REDCGA	1						0				
	CF1005-D3-F CF152-D2-C							0				
Levko and Array R								0				
	CF540-D2-C							0				
		•										

Problem Name	Problem Code	Status	Submit	Reading	Thinking	Coding	Debug	Total	Problem	Ву	Category	1-2 line Comments
	AC Averages =>	0	Count	1 ime(m)	Time(m)	Time(m)	1 ime(m)	Time(m)	Level /10	yourselt?	0	About your approach 0
	Ao Avelages -	-			U	U	U	0	· ·	U	_	
Robbery	UVA 707							0				Sol
The Errant Physici	UVA 126							0				Sol
Brackets sequence	UVA 1626							0				Sol
Unique World	<u>UVA 10448</u>							0				<u>Video Solution - Dr Mostafa Saad</u>
Bad Luck Island	<u>CF540-D2-D</u>							0				
Shopping Trip	UVA 11284							0				Sol
Hotel booking	UVA 11635							0				Sol
	<u>CF337-D2-D</u>							0				Sol
	HACKR ajourney							0				
	<u>CF665-D12-E</u>							0				
								0				
	<u>CF203-D2-D</u>							0				
Sereja ans Anagra								0				Sol
Choosing Capital f								0				
Coloring Brackets								0				Sol
	<u>CF263-D2-D</u>							0				
	CF101187-GYM-F							0				Sol
	SRM319-D1-500							0				
	Atcoder092-ARC-B							0				
	AtCoder002-AGC-C							0				
	CF363-D2-C							0				
	CF194-D2-C							0				
Escape from Stone	CFZ03-UZ-C							0				Coametry, Simple and Conyey Delugens
								0				Geometry - Simple and Convex Polygons
Destination of the	CDM070 D0 500							0				Geometry - Polygon Area - Centroid - Cut
BestTriangulation								0				
Trees on My Island								0				Pol
Packing polygons	LIVEARCHIVE 2831							0				Sol Lice polygon out
Video Surveillance								0				Use polygon cut
	SRM514-D1-500							0				Use polygon cut
	SRM473-D1-500							0				
	SRM555-D2-1000							0				
	UVA 557							0				Sol
	SRM285-D1-500							0				
	HACKR xrange-and-piz							0				Sol
	SRM525-D1-500							0				
	UVA 11648							0				Sol
	CF101864-GYM-A							0				Sol
	CF101864-GYM-L							0				Sol
	CF28-D12-C							0				
								0				Geometry - Point in polygon
	UVA 881							0				Sol
	UVA 11665							0				Sol
	TIMUS 1599							0				Sol
Polygons	UVA 137							0				Sol
								0				Graph Theory - Maximum Flow (2 vid)
Potholers	SPOJ POTHOLE							0				Sol
Power Transmission	UVA 10330							0				Sol
Gopher II	<u>UVA 10080</u>							0				Sol
Software Allocation	<u>UVA 259</u>							0				Sol
	UVA 10349							0				Sol - 2 ways
	UVA 12168							0				Sol
A Plug for UNIX	UVA 753							0				Sol
	UVA 10349							0				Sol - 2 ways
Intergalactic Map	SPOJ IM							0				Sol
	UVA 11159							0				Sol
	UVA 1194							0				Sol
Fence Obstacle Co								0				Sol
	UVA 10514							0				<u>Sol</u>
	SRM368-D1-500							0				Sol
	SRM373-D2-1000							0				Sol
	SRM558-D1-250							0				
	ZOJ 2587							0				Sol
	SRM550-D2-1000							0				
	UVA 10180							0				Sol
	TIMUS 1156							0				
	UVA 1184							0				<u>Sol</u>
	UVA 670							0				<u>Sol</u>

Problem Name	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
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0
								0				Graph Theory - SCC (2 vid)
The Bottom of a G								0				<u>Sol</u>
	UVA 10731 SRM312-D1-500							0				Sol
	CF467-D2-D							0				
Theseus and labyr								0				
	<u>CF418-D1-B</u>							0				
	UVA 10480							0				<u>Sol</u>
	SRM352-D2-1000							0				
Garland	<u>UVA 1555</u> <u>CF101589-GYM-F</u>							0				Sol Sol
	CF1016-D12-D							0				301
	<u>CF26-D12-D</u>							0				Sol - must read
	<u>CF1012-D1-B</u>							0				
	CF1010-D1-C							0				
	<u>CF633-D12-D</u>							0				
	HACKR house-location	!						0				<u>Sol</u>
	<u>CF621-D2-D</u> <u>CF101992-GYM-D</u>							0				Sol Sol
	SRM608-D2-1000							0				Sol
								0				
Gifts by the List	CF681-D2-D							0				
DZY Loves Modific								0				Prove
	CF548-D2-D							0				
Special Grid Roman and Numb	CF435-D2-D CF401-D2-D							0				
Persistent Bookca:								0				Sol
	CF550-D2-D							0				_
	<u>CF1059-D2-D</u>							0				
Almost Arithmetica	CF255-D2-C							0				
	CF59-D2-C							0				
Treasure	CF495-D2-C							0				
Unique Attack	ZOJ 2587							0				
	SPOJ DCEPC12E							0				
Grammar Evaluation								0				Sol
Find the Winning N	<u>UVA 10111</u>							0				Sol
Check the difficulty								0				Sol
Proving Equivalent								0				Sol
	UVA 547							0				Col
	<u>UVA 11504</u> SRM419-D2-1000							0				<u>Sol</u>
	UVA 11176							0				Sol
	SRM391-D2-1000							0				
	SRM465-D1-500							0				Sol
	UVA 10740							0				Sol
	UVA 12261							0				
	LIVEARCHIVE 4008 UVA 1342							0				<u>Sol</u>
	CF811-D2-D							0				
	AtCoder026-AGC-B							0				Sol
	SPOJ FISHES							0				Sol
	UVA 11475							0				Sol
D 10 T	05470 00 0							0				
Red-Green Towers Renting Bikes	<u>CF478-D2-D</u> <u>CF363-D2-D</u>							0				
Lucky Number 2								0				
	CF496-D2-D							0				
Bubble Sort Graph								0				
Upgrading Array								0				
	ZOJ 3305							0				Sol
	CF1017-D12-D							0				
	<u>CF69-D2-C</u> <u>CF322-D2-C</u>							0				
Plus and Square R								0				
und oquare N								0				
Boxes in a Line	UVA 12657							0				Sol
	SPOJ QUEST4							0				Sol
	UVA 11347							0				
	UVA 563	-						0				Sol
	SRM545-D2-1000 SRM495-D1-500	-						0				
	SPOJ PROOT							0				Sol
	<u>CF101149-GYM-G</u>							0				Sol
Connected Compo								0				
	SPOJ ANDROUND							0				Sol
Campus Roads								0				Sol
The Child and Zoo		_						0				<u>Sol</u>
	<u>CF403-D1-C</u> CF787-D2-C							0				
	<u>CF787-D2-C</u> <u>CF309-D12-B</u>							0				
	SRM392-D1-1000							0				
	UVA 12128							0				
	Timus 1362							0				Sol
	CF1012-D1-C							0				
	SPOJ COCONUTS							0				<u>Sol</u>

Problem Name	Problem Code	Status	Submit	Reading	Thinking	Coding Time(m)	Debug Time(m)	Total	Problem	By vourself?	Category	1-2 line Comments
	AC Averages =>	0	Count	1 ime(m)	1 ime(m)	0	1 ime(m)	1 ime(m)	Level /10	yourselt?	0	About your approach 0
	FbHkrCup 18-RQ-C		U	- J	J	J	, i	0	U	- C		
	LIVEARCHIVE 4682							0				Sol
								0				
Image Preview Maximum Xor Sec	CF651-D2-D							0				
	CF313-D2-D							0				
Mr. Bender and Sc								0				
	CF298-D2-D							0				
T-decomposition	CF237-D2-D							0				
Wizards and Huge								0				
	CODECHEF BJUDGE							0				
Dima and Salad	CF366-U2-C							0				
Arbitrage	UVA 104							0				Sol
	CF431-D2-D							0				
Black Box	<u>UVA 501</u>							0				Sol - Must Read
	<u>UVA 11234</u>							0				Sol
	SPOJ MSE07E							0				Read SPOJ users' comments about IO. See here sol
Tobo or not Tobo								0				<u>Sol</u>
Sum-up the Prime: Largest Rectangle								0				Sol. Don't implement as adhock/greedy/Pure STL. Use a data structure.
	UVA 663							0				Sol
	SRM531-D2-1000							0				
The Problem with								0				
	SPOJ PSYCHON							0				
	LIVEARCHIVE 4326	-						0				Sol
	<u>UVA 1234</u> SRM470-D2-1000	-						0				<u>Sol</u>
	CF359-D2-D							0				Sol
	UVA 10944							0				
Probability	<u>UVa 11346</u>							0				Sol
	SRM470-D1-500							0				
	SPOJ COCONUTS							0				<u>Sol</u>
	<u>CF592-D2-D</u> UVA 1218							0				Sol
	SPOJ IOPC1207							0				Sol
	CF867-D12-E							0				
								0				
-	<u>CF189-D2-D</u>							0				Sol
Moodular Arithmet								0				Sol
Lucky Transformat Boring Partition								0				Sol. Find proof (See editorial comments)
Spongebob and Sc	CF239-D2-D CF599-D2-D							0				Soi. Find proof (See editorial confinents)
How many trees?								0				
	CF1043-D12-E							0				
	UVA 10982							0				Sol
	<u>CF1060-D12-D</u>							0				
Cthulhu Anya and Ghosts	CF104-D2-C							0				
Square Subsets								0				
								0				
Angry Programme	UVA 11506							0				Sol
The New Rule in E								0				Sol
Multiples of 3								0				Sol
	SRM492-D2-1000	-						0				Sal
March of the Peng PeopleYouMayKno								0				Sol Don't use DP. Check it later in editorial. Sol
The Game of 31								0				Sol
Can you answer th								0				Sol
	TJU 1011							0				Sol
	<u>CF801-D2-D</u>							0				Sol
	UVA 10987							0				Sol
	<u>CF631-D2-D</u> SRM144-D1-500							0				
	SRM509-D1-500							0				
	CF280-D1-C							0				
	<u>CF110-D2-D</u>							0				
	CF163-D12-C							0				
	<u>CF455-D1-B</u>							0				
Infinito M	CE107 D2 D							0				
	<u>CF197-D2-D</u> <u>CF352-D2-D</u>							0				Sol
Sagheer and Kinde								0				Sol Sol
	CF242-D2-D							0				
Remainders Game								0				
	<u>CF1075-D2-D</u>							0				
	CF1033-D12-D							0				
	<u>CF442-D1-B</u>							0				
	<u>CF1025-D2-D</u> <u>CF1072-D2-D</u>							0				
	OI 1012-D2-D							J				

ff		Status	Count	Reading Time(m)	Thinking Time(m)	Time(m)		Time(m)	Problem Level /10	By yourself?		1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Level	Qualit
	AC Averages =>	0 This pa	0 ige has tl	0 he SAME	0 problems i	0 n (CF-A to 0	0 CF-D3). It h	0 ias proble	ems categor	ies, levels :	0 and quality	0 (last 4 columns)				
									F-D3) and pand and			rle fo Page. Read end of this page.				
anya and Fence Inton and Danik								0				C++ Solution Example This is from Round 379. Here is the editorial	adhoc, NA adhoc, NA	1	0.5	
Petya and Strings								0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
s your horseshoe Team	CF228-D2-A CF231-D2-A							0				<u>Video Solution - Eng Ahmead Raafat (Python)</u> <u>Video Solution - Eng Youssef Ali</u>	adhoc, NA adhoc, NA	1	1	
	CF236-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
	CF263-D2-A							0				Video Solution - Eng Samed Hajajla	adhoc, NA	1	1	
Colorful Stones (Si Stones on the Tab								0				<u>Video Solution - Eng Ahmead Raafat (Python)</u> <u>Video Solution - Eng Ahmead Raafat (Python)</u>	adhoc, NA adhoc, NA	1	1	
Sames	CF268-D2-A							0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	1	
Vord Capitalizatio √agnets	CF281-D2-A CF344-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1	
	CF381-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
	<u>CF405-D2-A</u>							0				Video Solution - Eng John Gamal	adhoc, NA	1	1	
	CF427-D2-A CF431-D2-A							0				<u>Video Solution - Eng Ahmead Raafat (Python)</u> <u>Video Solution - Eng Ahmead Raafat (Python)</u>	adhoc, NA adhoc, NA	1	1	
Vord	CF59-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1	
light at the Museu								0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	1	
Buy a Shovel Bear and Big Broth	CF732-D2-A CF791-D2-A							0				<u>Video Solution - Eng Yahia Ashraf</u> <u>Video Solution - Eng Youssef El Ghareeb</u>	adhoc, NA adhoc, NA	1	1	
Good Number	CF365-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc	1	1.5	
	CF298-D2-A CF118-D2-A							0				<u>Video Solution - Dr Mostafa Saad</u> <u>Video Solution - Solver to be (Java)</u>	adhoc adhoc, NA	1	1.5	
-	CF136-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Eng Ahmed Rafaat (Python)	adhoc, NA	1	1.5	
	CF158-D12-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
	CF160-D2-A CF208-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
Mountain Scenery	CF218-D2-A							0				Video Solution - Eng John Gamal	adhoc, NA	1	1.5	
	CF225-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
	CF270-D2-A CF282-D2-A							0				Video Solution - Eng Omar Ashraf Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
	CF287-D2-A							0				Video Solution - Dr Mostafa Saad	adhoc, NA	1	1.5	
Polo the Penguin a Shaass and Oskol								0				<u>Video Solution - Dr Mostafa Saad</u> <u>Video Solution - Dr Mostafa Saad</u>	adhoc, NA adhoc, NA	1	1.5	
aroslav and Pern								0				Video Solution - Dr Mostafa Saad	adhoc, NA	1	1.5	
en Odds	CF318-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
lelpful Maths (senia and Pan So	CF339-D2-A CF382-D2-A							0				<u>Video Solution - Solver to be (Java)</u> <u>Video Solution - Eng Samed Hajajla</u>	adhoc, NA adhoc, NA	1	1.5	
ranslation	CF41-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
ootball	CF43-D2-A							0				Video Solution - Eng Belal Abdulnasser (Python)		1	1.5	
Anton and Letters aptops	CF456-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
Wanna Be the Gu	CF469-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Counterexample	CF474-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
Calculating Function								0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
	CF490-D2-A							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
Chewbacca and N Pangram	CF514-D2-A CF520-D2-A							0				<u>Video Solution - Eng Muntaser Abukadeja</u> <u>Video Solution - Solver to be (Java)</u>	adhoc, NA adhoc, NA	1	1.5	
Case of the Zeros								0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
	CF567-D2-A							0				Video Solution - Eng Ahmed Rafaat (Python)	adhoc, NA	1	1.5	
Raising Bacteria Dlesya and Rodior	CF579-D2-A CF584-D2-A							0				Video Solution - Eng Ahmed Rafaat (Python) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
Nyona and Numbe	CF682-D2-A							0				Video Solution - Eng John Gamal	adhoc, NA	1	1.5	
	CF686-D2-A CF69-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
aunch of Collider								0				Video Solution - Eng Samed Hajajla	adhoc, NA	1	1.5	
Brain's Photos								0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Vay Too Long Wo Arpa's hard exam								0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
Mahmoud and Lor								0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
	CF767-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
Oath of the Night's New Password	CF768-D2-A CF770-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
arrot Cakes	CF799-D2-A							0				Video Solution - Solver to be (Java)	adhoc, NA	1	1.5	
anoramix's Prediction of the street and stre								0				Video Solution - Solver to be (Java) Video Solution - Solver to be (Java)	adhoc, NA adhoc, NA	1	1.5	
	CF9-D2-A CF9-D2-A							0				Video Solution - Solver to be (Java) Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	1.5	
lectricity	UVA 12148							0				Learn Calender Leap Year	adhoc, calender, leap year	1	2	p1
inal Standings resident's Office	TIMUS 1100 CF6-D2-B							0				Stable sort exercise Video Solution - Eng Muntaser Abukadeja	adhoc, stable sort adhoc, stl	1	2	p1
	CF102-D2-B							0				Video Solution - Eng Muntaser Abukadeja Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Meeting	CF144-D2-B							0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
teps urglar and Match	CF152-D2-B CF16-D2-B							0				<u>Video Solution - Eng Muntaser Abukadeja</u> <u>Video Solution - Eng Muntaser Abukadeja</u>	adhoc, NA adhoc, NA	1	2	
rowing Mushroor								0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
	CF215-D2-B							0				Video Solution - Eng Ahmed Salah	adhoc, NA	1	2	
ffective Approach oma and Changii								0				<u>Video Solution - Eng Abanob Ashraf</u> <u>Video Solution - Eng Mohamed Salah</u>	adhoc, NA adhoc, NA	1	2	
toutine Problem	CF337-D2-B							0				Video Solution - Eng Mohamed Adel	adhoc, NA	1	2	
eff and Periods								0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
	<u>CF376-D2-B</u> <u>CF384-D2-B</u>							0				Video Solution - Eng Abanob Ashraf	adhoc, NA adhoc, NA	1	2	
Bear and Strings								0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
nna and New Mat								0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
lashmokh and To asha Maximizes								0				<u>Video Solution - Eng Salma Yehia</u> <u>Video Solution - Eng Hossam Yehia</u>	adhoc, NA adhoc, NA	1	2	
OZY Loves Chemi:	CF445-D2-B							0					adhoc, NA	1	2	
	CE449 D2 B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Suffix Structures Chat Online	CF469-D2-B							0				Video Solution - Eng Mohamed Adel	adhoc, NA	1	2	

ff	Problem Code	Status	Count	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	l Quality
Vasya and Wrestli	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0	adhoc, NA	1	2	
Secret Combination								0					adhoc, NA	1	2	
Mr. Kitayuta's Cold								0				Video Solution - Eng Muntaser Abukadeja	adhoc, NA	1	2	
Fox And Two Dots								0				Video Solution - Eng Mohamed Adel	adhoc, NA	1	2	
Pasha and String								0				Video Solution - Eng Hossam Yehia	adhoc, NA	1	2	
-	CF544-D2-B							0				Video Solution - Eng Mohamed Salah	adhoc, NA	1	2	
Kefa and Compan								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 Gan	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				<u>Video Solution - Eng Muntaser Abukadeja</u>	adhock, prefix sum	1	2	
Valera and Contes	CF369-D2-B							0				Video Solution - Eng Yahia Ashraf	adhoc, NA	1	2	
Han Solo and Laz	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								0				Video Solution - Eng Abanob Ashraf	adhoc, NA	1	2	
Preparing Olympia								0				Video Solution - SolverToBe (Java)	adhoc, NA	1	2	
Lovely Palindrome								0				Video Solution - Solver to be (Java)	adhoc, NA	1	2	
Anatoly and Cocki								0					adhoc, NA	1	2	1
Decoding	CF746-D2-B							0				Video Solution - Solver to be (Java)	adhoc, NA	1	2	p2
Bear and Friendsh								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								0					adhoc, prefix sum	1	2	
Vika and Squares								0					adhoc, prefix sum	1	2	1
	CF1237-D12-B							0					adhoc, prefix sum	1	3	р3
Alyona and mex								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								0					adhoc, prefix sum	1	4	p5
	CF1043-D12-C							0					adhoc, constructive	1	4	р3
	CF1075-D2-C							0					adhoc, constructive, sweep	1	4	р3
	CF1237-D12-C2							0					adhoc, constructive	1	4	p3
Molly's Chemicals								0				Video Solution - Solver to be (Java)	adhoc	1	4	p2
Number of Ways								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					adhoc, coordinate systems, math or simula		4	p1
	SRM381-D2-1000							0					adhoc, sorting, [bubble sort]	1	4	p1
Cutting Figure	CF194-D2-C							0				Vista Call Francisco Call and the Alexander	adhoc	1	4	
Hacker, pack your								0				Video Solution - Solver to be (Java)	adhoc	1	4	
Greg and Array	CF296-D2-C							0					adhoc, prefix sum	1		-2
Almost Equal	CF1066-D3-E							0				Video Colution De Mantaia Cond	adhoc, string, math adhoc, constructive	1	4.25	
Permutations	CF1206-D2-C CF189-D2-C							0				Video Solution - Dr Mostafa Saad	adhoc	1	4.25	p3
remutations								0				Sol		1		-0
Array Division	SRM274-D1-500 <u>CF808-D2-D</u>							0				Video Solution - Solver to be (Java)	adhoc, canonical form, bf or greedy adhoc, string prefix	1	4.5	p2 p1
Prime Permutation								0				video Solution - Solver to be (Java)		1	4.5	рі
Try and Catch								0				Editorial For About Occurs	adhoc, constructive	1	4.5	
Title	<u>CF195-D2-C</u> <u>CF59-D2-C</u>							0				Editorial - Eng Ahmed Osama	adhoc, string parsing adhoc, string parsing	1	4.5	
Title	CF309-D1-C							0						1	5	n2
	SPOJ KOMPICI							0					adhoc, binary search, bitmasks or rmq adhoc, bitmasks, [=spoj iitkwpch]	1	5	p3 p3
Lucky Transforma								0					adhoc, impl	1	5	p3
Lucky Transforma	SPOJ PARSUMS							0				Sol	adhoc, cyclic shifts, partial sum or segment	1	5	p2
	CODECHEF OPPOSIT							0				301	adhoc	1	5	p2
	SRM321-D1-500	4						0				See Rushiose's code in arena summary	adhoc, sorting, [print the smallest lexicogra	1	5	p2
Fish Weight	CF298-D2-D							0				oce reasinose s code in arena summary	adhoc adhoc	1	5	PZ.
Dividing Island	CF63-D2-D							0					adhoc	1	5	
Median Smoothing								0				Editorial	adhoc, constructive, impl	1	5	
modium omodumi	CF23-D12-C							0				Carona	adhoc, sortings, overflow	1	5.25	n3
	CF101589-GYM-F							0				Sol	adhoc	1	5.75	
	Atcoder092-ARC-B							0				_	adhoc, bitmasks, binary search	1	6	рЗ
23 out of 5	UVA 10344							0				Video Solution - Eng Mohamed Nasser	backtrack	2	2	Ė
8 Queens Chess F								0				Video Solution - Eng Ayman Salah	backtrack	2	4	
	UVA 193							0				Video Solution - Dr Mostafa Saad	backtrack, graph, maximum independent se		4	
Safe	CF47-D2-D							0					backtrack, datastructures, impl	2	5	р3
	UVA 10058							0				Sol	backtrack, expression parsing	3	4	р3
Grammar Evaluati								0				Sol	backtrack, expression parsing, [cnf]	3	5	p4
Help Vasilisa the V								0				Video Solution - Eng John Gamal	bf	5	1.5	
Gerald is into Art								0					bf	5	2	
Simple Game	CF570-D2-B							0					bf	5	2	
Students and Sho								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	
	CF63-D2-C							0				Sol	bf, impl	5	4	p2
Almost Arithmetica	CF255-D2-C							0					bf	5	4	
	CF118-D2-C							0					bf or greedy	5	4	
Recycling Bottles								0					bf or greedy	5	4	
Devu and Partition								0					bf, constructive, impl	5	4	
Football Champion								0					bf, impl	5	4	
Sereja and Algorit								0					bf, impl	5	4	
Arthur and Table								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								0				Video Solution - Dr Mostafa Saad	bf	5	4.5	Ė
J	UVA 12261							0					bf, [cases]	5	5	р3
	UVA 10705							0				Sol	bf, prune, binary base, bitmasks	5	5	р3
								0				_	bf, impl or greedy	5	5	p2
Lucky Number 2																
Lucky Number 2 Levko and Array F								0					bf or greedy	5	5	p2

ff	Problem Code	Status	Count	Time(m)	Thinking Time(m)	Time(m)	Debug Time(m)			yourour.		1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Leve	I Qua
	AC Averages => CF621-D2-D	0	0	0	0	0	0	0	0	0	0	0	bf, math, logs, [one solution use complex nu	E	5.5	p2
	SRM513-D2-1000							0				Sol		5	5.5	p2 p2
	CF633-D12-D							0					bf, hashing, impl, [idea that functions like fib		5.5	p2
	SRM525-D1-500							0						5	5.5	р3
	CF287-D2-B							0				Video Solution - Dr Mostafa Saad		6	2.5	
nya and Lanterr								0				Video Solution - Solver to be (Java)		6	2.5	p2
gressive cows	SPOJ AGGRCOW							0				Video Solution - Eng Youssef El Ghareeb	binary search	6	3	
noi Tower Trout	UVA 10276							0				Video Solution - Eng Mahmoud Adel	binary search or simulation	6	3.5	
e Stern-Brocot 1	UVA 10077							0					binary search, gcd	6	3.5	
agical Boxes	CF270-D2-C							0					binary search, greedy, math, impl	6	4	р3
	CF651-D2-D							0					, , . ,	6	4	p2
gheer and Nubi								0				Video Solution - Solver to be (Java)	binary search	6	4	
e Playboy Chim	UVA 10611							0				Video Solution - Eng Ayman Salah	binary search	6	4	
dified GCD	CF75-D2-C							0				Video Solution - Dr Mostafa Saad		6	4	p2
	SPOJ DICTSUB							0				Sol	binary search, lower bound	6	4.5	p2
. Bender and Sc	CF255-D2-D							0						6	4.5	p1
	CF1060-D12-C							0					binary search, two pointers, armortized ana		5	p3
Itiplication Table								0				Video Solution - Solve to be (Java)		6	5	p2
	UVA 1555							0				Sol		6	5	p3
	SPOJ ABA12E							0				Sol	binary search, [counting subarrays with sun		5.5	p3
owstopper	SPOJ MSE07E							0				Read SPOJ users' comments about IO. See her	binary search, d&c, [issues in io, seems diff	6	6	p3
	SRM319-D1-500							0						8	5.5	p2
	SPOJ POSTERIN							0				Sol		9	3	p4
ight Tournamen								0						9	3	
	LiveArchive 8078							0				Sol	datastructures, stack or dp, [count the longs		4	p4
	<u>CF92-D2-D</u>							0						9	4	p2
	CF705-D2-C							0						9	4	p2
	UVA 1592							0						9	4	p2
tle Girl and Maxi								0						9	4	
ya and Smartph								0						9	4.5	
renzo Von Matte								0					datastructures, impl, trees	9	4.5	
	SPOJ WEIRDFN							0				Sol	datastructures, heap, min_max heaps, [rest		5	p4
	UVA 501							0				Sol - Must Read	datastructures, heap, min_max or bbst or se	9	5	p2
	LiveArchive 3634							0				Sol	datastructures, sets intersections and union	9	5	p2
	CF899-D2-E							0					datastructures, lists or sets merging	9	5.5	р3
ke and Feet	CF548-D2-D							0					datastructures, stack or rmq or segment tre	9	5.5	p2
xes in a Line	UVA 12657							0				Sol	datastructures, linked list, impl	9	5.5	p1
pressions	<u>UVA 11234</u>							0				Sol	datastructures, stack & queue	9	6	p2
	UVA 11997							0				Sol	datastructures, heap, [counting subarrays w	9	6.25	p4
tting Sticks	UVA 10003							0					dp, [use scanf, you may need to avoid mem	10	3	p2
viding coins	UVA 562							0				Video Solution - Eng Ayman Salah	dp	10	3	
cation	UVA 10192							0				Explained in the tutorial videos	dp, lcs	10	3	
risibility	UVA 10036							0					dp, math	10	3	
ngest Match	UVA 10100							0					dp, lcs	10	3.5	
	CF1057-D12-C							0					dp, 2d grid	10	4	p2
ernative Thinkin	CF604-D2-C							0					dp or greedy	10	4	p2
ring to Palindron	UVA 10739							0				Explained in the tutorial videos	dp	10	4	
ouble of 13-Dots	UVA 10819							0					dp, [knapsack]	10	4	
podcutters	CF545-D2-C							0						10	4	
ounting	UVA 10198							0				Needs Big Integer: Have it in your cpp library or		10	4	
ven Length and								0						10	4	
rategic Defense								0				Explained in the tutorial videos		10	4	
rd problem	CF706-D2-C							0					dp	10	4.5	р1
redom	CF456-D2-C							0					dp	10	4.5	
loring Trees	CF711-D2-C							0				Video Solution - Solver to be	dp	10	4.5	
ain Palindrome	UVA 10617							0				Sol to read	dp	10	4.5	
heduling Lecture								0				Sol		10	4.5	
vide by Three	CF792-D2-C							0				Video Solution - Solver to be (Java)	dp, dp_memo or greedy	10	4.5	
avio Sequence								0				Sol		10	5	р3
od Sequences								0					dp, sieve, binary search	10	5	р3
	CF366-D2-C							0						10	5	p2
	CF101-D1-B							0				Sol		10	5	p2
bble Sort Graph								0				_	dp, lis, onlogn, reduce to efficient lis or dp, t		5	p2
	CF506-D1-A							0						10	5	p2
	CF225-D2-C							0				Video Solution - Dr Mostafa Saad		10	5	
	CF699-D2-C							0						10	5	
eenhouse Effect								0						10	5	
	CF721-D2-C							0						10	5	p2
	CF264-D1-C							0						10	5.5	p4
	CF284-D2-D							0						10	5.5	р3
	CF1066-D3-F							0						10	5.5	р3
otimal Array Mult								0				Sol	**	10	5.5	р3
	SRM569-D2-1000							0				_		10	5.5	р3
	CF313-D2-D							0						10	5.5	р3
	TIMUS 1156							0						10	5.5	p3 p2
loring Brackets								0				Sol		10	5.5	p2 p2
	CF1012-D1-C							0						10	5.5	p2
	CF623-D1-B							0						10	5.75	
	CF1072-D2-D							0					1.0	10	5.75	
	CF1072-D2-D							0						10	6	
	FbHkrCup 18-R1-A							0						11	5	p2 p2
	CF580-D2-D							0				Video Solution - Solver to be		13	4	
	SPOJ PERMUT1							0				Video Solution - Solver to be		13	4	p2 p2
	SPOJ ASSIGN							0						13	4	p2
								0								
	UVA 10651											Sol		13	4	p1
	UVA 11825							0				Sol	dp, dp_bitmasks, mask-all-subsets, [direct p		5	p2
	UVA 10944							0					SEASE STORY OF STORY	13	5	+
	CF431-D2-D							0				Col		13	5.5	p3
	UVA 11284							0				Sol		13	6	
	UVA 757							0				Sol to read		15	3	+
ke Palindrome								0				Sol	dp, dp_build_output, [similar to edit distance		3.5	p3
st Food	UVA 662							0						15	4.5	p2
	LIVA 11404							0						15	4.5	
indromic Subse								0						15	4.5	
lindromic Subse idirectional TSP anging a String	UVA 116							0						15	4.5	

ff	Problem Code	Status		Reading Time(m)	Thinking Time(m)	Time(m)	Debug Time(m)	Total Time(m)		By yourself?	Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Leve	l Quality
UnsealTheSafe	AC Averages => SRM354-D2-1000	0	0	0	0	0	0	0	0	0	0	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	
<u>DiceGames</u>	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 SRM514-D1-500							0					dp, dp_counting or math, combinatorics dp, dp_counting, dp_bitmasks	18	5 6.25	p4
Little Girl and Max								0				See editorials	dp, dp_digit or impl	22	4.5	p1
Roman and Numb								0					dp, dp_digit, dp_bitmasks or adhoc	22	5	р3
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	р3
Bachet's Game	<u>UVA 10404</u>							0				Sol	dp, dp_games	23	3	
RowAndCoins	SRM522-D1-250							0					dp, dp_games, dp_bitmasks or adhoc	23	3	
EllysCheckers	CF1033-D12-C SRM534-D1-250							0					dp, dp_games, [harmonic progression] dp, dp_games, dp_bitmasks or game theorem	23	4	p3
Bag of mice	CF148-D2-D							0					dp, dp_games, dp_bitmasks or game treo dp, dp_games, dp_probability	23	4.5	p2
The Game of 31	UVA 10578							0				Sol	dp, dp_games	23	4.5	PΣ
Find the Winning								0				Sol	dp, dp_games or backtrack, minmax (alpal	1 23	5.5	р3
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	р3
Bad Luck Island								0					dp, dp_probability	29	4.5	p2
Dice Throwing	g SRM339-D1-500 UVA 10759							0				Sol	dp, dp_probability dp, dp_probability, counting style	29 29	4.5	p2 p2
Wizards and Hug								0				<u>50i</u>	dp, dp_probability	29	4.5	PZ.
	CF28-D12-C							0					dp, dp_probability, combinatorics or adhoc		5	р3
Check the difficult								0				Sol	dp, dp_probability	29	5	р3
	CF16-D2-E							0					dp, dp_probability, dp_table, masks	29	5	р3
Let's Dance	<u>UVA 10218</u>							0				Sol	dp, dp_probability or combinatorics	29	5	p1
Tribbles	UVA 11021							0				Sol	dp, dp_probability, dp_table, [independece		5.5	p3
Collecting Bugs Winning Streak	PKU 2096 UVA 11176							0				Sol Sol	dp, dp_probability or math, [hard text for fe dp, dp_probability	v 29 29	5.5	p2
Creating Palindro								0				Video Solution - Eng Aya Elymany	dp, dp_ranges, lcs or backtrack	32	4.5	р3
g r amidio	CF101294-GYM-I							0				Sol	dp, dp_ranges	32	4.5	p1
	SRM441-D1-250							0					dp, dp_ranges, [consective ranges, cyclic		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	
F -1 - 2	SRM558-D1-250							0				Notes and the first first and additional to the first	dp, dp_ranges, [consective ranges] or bf	32	5.5	p2
Exploring Pyramic Brackets sequence								0				<u>Video Solution - Eng Ayman Salah</u> <u>Sol</u>	dp, dp_ranges	32 32	5.5 5.5	
brackets sequent	SRM509-D1-500							0				301	dp, dp_ranges dp, dp_ranges, floyd, [cases]	32	6	p4
	UVA 507							0					dp, dp_subrectangle, 1d, [more direct uva		3	р.
	UVA 10667							0					dp, dp_subrectangle, 2d	36	3	
Big Maximum Sur	r <u>CF75-D2-D</u>							0					dp, dp_subrectangle, 2d, [actually greedy	n 36	5	p2
	SPOJ FISHES							0				Sol	dp, dp_subrectangle, 2d, observations, do		5.5	р3
Reberland Linguis								0					dp, dp_table	37	4.5	р3
Red-Green Towe								0					dp, dp_table, dp_roll	37	5	p3
Cunning Gena	<u>CF418-D1-B</u> ZOJ 3305							0				Sol	dp, dp_table, dp_roll, dp_bitmasks, sorting dp, dp_table or dp_bitmasks, all submasks		5.5 5.5	p4 p4
An overnight dand								0				Video Solution - Solver to be (Java)	dp, dp_trees, geometry or greedy	38	5	р3
7 tr overnight dans	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 gue	s 38	5.5	p4
Chloe and pleasa								0					dp, dp_trees	38	5.5	p2
	Timus 1362							0				Sol	dp, dp_trees or greedy	38	5.5	p2
Playing Cubos	UVA 1218 CF257-D2-B							0				Sol	dp, dp_trees, [vertex cover releated]	38 41	5.75	p2
Playing Cubes Euclid's Game	UVA 10368							0				Video Solution - Eng Moaz Rashad	game theory, greedy game theory, gcd, dfs or pattern, [why eac		2.5 3.5	p2
Edona o Garrio	CF1220-D12-C							0				Tidd Collins - Eng Houz Facility	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				<u>Video Solution - Eng Magdy Hasan</u>	geometry	45	2	p1
	SRM436-D2-500							0					geometry, [slopes comparison]	45	3	p1
Points in Figures:								0					geometry	45 45	3	
Watering Flowers Pouring Rain	CF617-D2-C CF667-D2-A							0					geometry, bf geometry, physics	45	3	
Fourth Point !!	UVA 10242							0				Video Solution - Eng Magdy Hasan	geometry, vectors addition	45	3	
Captain Marmot								0				Video Solution - Dr Mostafa Saad	geometry, check square, point rotation, bf	45	3.5	p2
Overlapping Rect								0				Video Solution - Eng Muntaser Abukadeja	geometry	45	3.5	
Xrange's Pancake	HACKR xrange-and-pi							0				Sol	geometry, adhoc	45	4	p2
	HACKR a-circle-and-a	-5						0				Col	geometry, ccw, parametric equ, in circle	45	4	p2
k-Multiple Free Se	SPOJ FACENEMY							0				Sol	geometry, angles, precision	45 45	4	p1
Gerald's Hexagor								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) so		4.5	р3
Pyramids	SPOJ PIR							0				Sol	geometry, formula or matrix determinant	45	4.5	p1
Pythagorean Trip								0					geometry, triangles, formula	45	4.5	p2
Cunhored	SPOJ BILLIARD							0				Sol	geometry, angles, physics	45	5	n2
Cupboard and Ba	CF342-D2-C CF1064-D2-E							0					geometry binary search interactive	45 45	5	p3 p3
	CF961-D12-D							0					geometry, binary search, interactive geometry	45	5	p3 p2
	CF101917-D12-E							0					geometry, [ppl scared in contest, but easy]		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	4
	CF101864-GYM-L							0				Sol	geometry, binary search or bf, greedy	45	5.5	p3
	CF80-D2-D							0				Sol	geometry, probability or algebra	45	5.5	p2
	UVA 11648 UVA 1333							0				Sol - Text/Background Clarification	geometry, trapezoid formula, binary search geometry, triangles, angles, parallelogram		6	p2 p1
Hit Ball	CF203-D2-D							0				zw. i sviradovijonih Ciani(Silloli	geometry, triangles, angles, parallelogram geometry, 3d, impl, math, [physics, kinema		5	p1 p2
	UVA 453							0				Learn Handling Precisions	geometry, circles, [direct circle intersection		2	
								0								

ff		Status	Count	Time(m)	Thinking Time(m)	Time(m)				By yourself?		1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Leve	Quali
	AC Averages => UVA 10301	0	0	0	0	0	0	0	0	0	0	0	geometry girales, day	47	2	p.1
-								0				Sol to read	geometry, circles, dsu	47	3	p1
Square Pegs And The Circumference								0				Sol to read	geometry, circles geometry, circles	47	3	
Points in Figures: I								0				Sol	geometry, circles	47	3.5	
Special Olympics								0					geometry, circles, impl	47	4	
Biathlon	CF84-D2-C							0					geometry, circles, impl	47	4	
Packing polygons	<u>UVA 10005</u>							0				Sol	geometry, circles, polygon, [polyon inside p	47	5	p4
	SRM473-D1-500							0					geometry, circles, triangles, thales' theorem	147	5	p3
	SPOJ ALIENS							0				Sol - Practice on min enclosing circle	geometry, circles, min enclosing circle, [=s		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	р3
	UVA 10180							0				Sol Solds and	geometry, circles, tangents, point on segm		5.5	p2
Railway	UVA 10263 UVA 270							0				Sol to read Video Solution For Mahamad Nassar Don't Co	geometry, lines, distances, [=uva 460]	48	3	p3
	UVA 11473							0				Video Solution - Eng Mohamed Nasser. Don't Co Sol	geometry, lines, distances, impl	48	3	p3 p2
	CF617-D2-D							0				<u>501</u>	geometry, lines, impl	48	3	p2
	UVA 273							0				Sol	geometry, lines, intersection, shortest path		3	
Isolated Segments								0				Sol	geometry, lines, intersections	48	3	
ntersecting Lines								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	рЗ
How Many Points								0				Sol	geometry, lines, intersections, counting, for		4	p1
	UVA 10514							0				Sol	geometry, lines, distances, floyd	48	5	
BestTriangulation								0					geometry, polygon, area, [just triangle area		2	
-	CF408-D2-C							0				0:1	geometry, polygon	49	4	
	UVA 11665							0				<u>Sol</u>	geometry, polygon, pip, polygons intersecti		4	
	TIMUS 1599							0				<u>Sol</u>	geometry, polygon, pip, winding numbers,		4.5	p1
	UVA 881							0				Sol	geometry, polygon, pip, polygons inside po		4.5	r.0
	CF340-D2-B							0				Col	geometry, polygon, bi	49	5	p2
	CF801-D2-D							0				<u>Sol</u>	geometry, polygon, binary search	49	5	p2
	UVA 137							0				Sol.	geometry, polygon, pip, intersections or co		5.5	p3
Area Trees on My Island	TJU 1011							0				Sol	geometry, polygon, pick's theorem geometry, polygon, pick's theorem, gcd	52 52	4.5 5	p1
	LIVEARCHIVE 2831							0				Use polygon cut	geometry, polygon, polygon cut	53	4	
Video Surveillance								0				Use polygon cut	geometry, polygon, polygon cut or adhoc	53	6	p5
The Skyline Proble								0				Odd polygon dat	greedy, geometry	00	3	ро
Marcus	UVA 10452							0				Video Solution - Eng Ayman Salah	graph	55	3	
Trees on the level								0				Video Solution - SolverToBe (Java)	graph, trees	55	3	
PT07Z	SPOJ PT07Z							0				Sol	graph, tree diameter	55	3	
Roads in the North								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								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	р3
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	р3
	CF1060-D12-D							0					graph, greedy	55	5.5	р3
	UVA 10982							0				Sol	graph, greedy, [close to max cut]	55	5.5	р3
	CF592-D2-D							0					graph, tree diameter	55	5.5	р3
BITMAP - Bitmap								0					graph, bfs, multisrc, multidest	57	3	р3
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)								0				Video Solution - Eng Ayman Salah	graph, bfs	57	4	
Tic-Tac-Toe (II)								0				Video Solution - Eng Essam AlNaggar	graph, bfs	57	4	
	UVA 439							0				Video Solution - Eng Magdy Hasan	graph, bfs, chess or dfs	57	4	
King's Path Theseus and labyr	CF242-D2-C							0				Video Solution - Dr Mostafa Saad	graph, bfs	57	4.5	200
Theseus and labyr Wandering Queen								0				Sol to read	graph, bfs, impl graph, bfs	57 57	4.5	p2 p1
	CF404-D2-C							0				5011011000	graph, bfs	57	4.5	Pi
Key Task	SPOJ CERCO7K							0					graph, bfs, bitmask	57	4.5	
	SPOJ CLEANRBT							0					graph, bfs, bitmask or bfs preprocess then		4.5	
	UVA 10888							0					graph, bfs, dp or weighted matching	57	5	р3
	CF253-D2-C							0					graph, bis, up or weighted matching graph, bis or greedy, [search in 2d grid]	57	5	p3 p2
	SPOJ ANARCOSA							0				Sol	graph, bfs, trie, hashing or meet in middle	57	5	P-
. 550 01 1101 1000	CF1005-D3-F							0				200	graph, bis, tile, hashing or meet in middle	57	5.25	p2
	TIMUS 1498							0					graph, bfs, [chess, tricky cases]	57	5.5	p2
	UVA 11573							0				Learn 0/1 BFS	graph, bfs, 0/1 bfs, [~spoj kaththi]	57	5.5	p2
	CF787-D2-C							0					graph, bis, ovi bis, ["spoj katititij"]	57	5.5	p2
	CF811-D2-D							0					graph, bis, cyclic games graph, bfs, interactive	57	6	p2
	UVA 10461							0					graph, dfs, [finish computation times]	60	3	p1
Roads in Berland								0					graph, dfs	60	4	p2
Party	CF116-D2-C							0					graph, dfs	60	4	p1
	CF216-D2-B							0				Video Solution - Dr Mostafa Saad	graph, dfs	60	4	Ė
Block Tower	CF327-D2-D							0					graph, dfs	60	4	
Soldier and Cards								0					graph, dfs	60	4	
	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								0					graph, dfs, impl	60	4.5	p1
ce Cave	CF540-D2-C							0					graph, dfs	60	4.5	Ė
	UVA 872							0					graph, dfs	60	4.5	
	CF711-D2-D							0					graph, dfs, combinatorics, formula	60	5	р3
	SPOJ BIA							0				Sol	graph, dfs or directed articulation points alg		5	p2
Choosing Capital f								0					graph, dfs or dp_trees	60	5	Ť.
	CF1075-D2-D							0					graph, dfs, interactive	60	5.5	рЗ
Infinite Maze	CF197-D2-D							0					graph, dfs	60	5.5	
	CF263-D2-D							0					graph, dfs	60	5.5	
Cycle in Graph																

ff	Problem Code	Status	Count	Time(m)	Thinking Time(m)	Coding Time(m)	Debug Time(m)	Total Time(m)		yourself?	Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Leve	l Quality
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0	the state of the s	00	5.75	
Robbery	UVA 707							0				<u>Sol</u>	graph, dfs or dp	60	5.75	
Persistent Bookca Moodular Arithmet								0				Sol Sol	graph, dfs, bitset or persistent segment tree		6	p3 p2
The Seasonal War								0				Video Solution - Eng Mohamed Nasser	graph, dfs, fermat, [rearangement propperty graph, dfs, flood-fill	61	2	μZ
Battleships	UVA 11953							0				Video Solution - Eng Aya Elymany	graph, dfs, flood-fill	61	3.5	
Maze Exploration								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	р3
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	
	UVA 196							0					graph, dfs, topological sort or dp	63	4	р3
-	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	р3
Robot Rapping Re								0						63	5	p3
	CF681-D2-D							0				Cel	graph, dfs, topological sort, impl	63	5	p2 p4
Sagheer and Kind								0				Sol	graph, dfs, topological sort or euler, [https://			p4
Shopping Sanding amail	SPOJ SHOP UVA 10986							0					graph, dijkstra	64 64	3	
Sending email MELE3	SPOJ MELE3							0				Sol	graph, dijkstra graph, dijkstra	64	4.5	
Roads	SPOJ ROADS							0				Sol	graph, dijkstra or dp	64	4.5	р3
Lift Hopping	UVA 10801							0				<u>50i</u>	graph, dijkstra	64	4.5	ро
	UVA 10740							0				Sol	graph, dijkstra, kth sp. [k <= 10]	64	5	р3
	CF96-D2-D							0				_	graph, dijkstra, 2 dijkstra	64	5	p2
	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	р3
Hotel booking	UVA 11635							0				Sol	graph, dijkstra	64	5.5	1
-	UVA 1174							0					graph, dsu	65	2	
	UVA 10178							0				Read first Euler Formula	graph, dsu or dfs, cycles	65	4	p2
Learning Languag								0					graph, dsu	65	4	İ
Virtual Friends	UVA 11503							0				Video Solution - Eng Moaz Rashad	graph, dsu	65	4	
Almost Union-Find								0				Sol	graph, dsu	65	4.5	р3
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	р3
	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	р3
Trip Routing	UVA 186							0				Sol	graph, floyd, path print	68	4	р3
Numbering Paths								0				Sol	graph, floyd, paths counting	68	4.5	p5
Frogger	UVA 534							0				Sol	graph, floyd, minimax or dsu	68	4.5	p4
	UVA 10816							0				Sol	graph, floyd, binary search	68	4.5	
Identifying Concur								0					graph, floyd	68	4.5	
-	CF296-D2-D							0					graph, floyd	68	5	p2
Dima and Bacteria								0					graph, floyd, dfs	68	5	p2
AlgoRace	CF189-D2-D							0				Sol	graph, floyd	68	5.25	
Antifloyd	UVA 10987							0				Sol	graph, floyd, antifloyd	68	5.5	p4
	UVA 10448							0				Video Solution - Dr Mostafa Saad	graph, floyd, dp	68	5.5	p2
Arbitrage	UVA 104							0				<u>Sol</u>	graph, floyd	68 71	6.25	p2
Potholers Power Transmission	SPOJ POTHOLE							0				<u>Sol</u>	graph, max-flow	71	4	
The Problem with								0				Sol	graph, max-flow, vertex constraints graph, max-flow, [direct bipartite is slow]	71	4.5	р3
Crimewave	UVA 563							0				Sol	graph, max-flow, turied bipartite is slowj graph, max-flow, vertex constraints, sparse		5.5	p4
	SPOJ IM							0				Sol	graph, max-flow, vertex disjoint path/ supe		5.5	p2
A Plug for UNIX								0				Sol	graph, max-flow, impl	71	5.5	p2
March of the Peng								0				Sol	graph, max-flow, vertex constraints	71	6	
Gopher II	UVA 10080							0				Sol	graph, max-flow, bipartite match	72	4	
Software Allocation								0				Sol	graph, max-flow, bipartite match or impl	72	4.5	
	UVA 670							0				Sol	graph, max-flow, bipartite match	72	5	р3
	UVA 1184							0				Sol	graph, max-flow, bipartite match, min path	72	5	p2
	UVA 1194							0				Sol	graph, max-flow, bipartite match, min vertex		5.5	p4
	UVA 10349							0				Sol - 2 ways	graph, max-flow, bipartite match, max indep	72	5.5	р3
	UVA 11159							0				Sol	graph, max-flow, bipartite match, min path		5.5	р3
	UVA 12168							0				Sol	graph, max-flow, bipartite match, konig's th	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
	<u>UVA 10480</u>							0				Sol	graph, max-flow, min-cut, [print, as in video		4.5	p1
Unique Attack	ZOJ 2587							0				Sol	graph, max-flow, min-cut, cut edges	74	5	p2
Angry Programme								0				Sol	graph, max-flow, min-cut, vertex constraints		5.25	
PeopleYouMayKn								0				Don't use DP. Check it later in editorial. Sol	graph, max-flow, min-cut or dp	74	5.5	р3
	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
	UVA 10147							0				Video Solution - Eng Mahmoud Adel	graph, mst	76	3	
Is There A Second								0				T	graph, mst, 2nd mst	76	3	
	UVA 10843							0				Theory result to read	graph, mst, # of spanning trees of complete		4	p2
ACM contest and I								0				Video Solution - Eng Moaz Rashad	graph, mst, 2nd mst	76	4.5	p1
rime i ravellingSal	SRM492-D2-1000							0					graph, mst [cases] [validate tree]	76	5	p3
PACING	CF472-D12-D							0				Sal	graph, mst, [cases], [validate tree]	76	5	p3
RACING Arctic Network	UVA 1234 UVA 10369							0				Sol	graph, mst, max spanning tree	76 76	5	p2
	SRM531-D2-1000							0					graph, mst, [prime fails]	76	5	p2 p1
								0					graph, mst		5	μı
	CF606-D2-D SPM470-D2-1000							0					graph, mst	76 76		
ActivateGame Minimal Patio Tree	SRM470-D2-1000							0					graph, mst	76 76	5.25	
	SPO L BOTTOM							0				Sol	graph, mst, combinatorics	76 77	3	
The Bottom of a G								0				<u>Sol</u>	graph, sec			
Test Dominos	UVA 10731 UVA 11504							0				<u>Sol</u>	graph, see or topological sort (=uva 11770	77 77	3.5	n1
DOMINOS												Sol	graph, scc or topological sort, [=uva 11770,		4.5	p1
	CF467-D2-D SPM312-D1-500							0					graph, scc, hashing or dijkstra	77	5	nº2
	SRM312-D1-500											Sol	graph, scc, greedy, [scc floyd]	77	5.5	p2
Proving Equivalen								0				<u>Sol</u>	graph of flowd evelop or may flow	77	5.5	
	SRM608-D2-1000 SRM391-D2-1000							0				Sol	graph, bf, floyd, cycles or max flow graph, scc, dp, [scc may help thoughts]	77	5.75	р3
								U								PO

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	AC Averages => <u>CF403-D1-C</u>	0	0	0	0	0	0	0	0	0	0	0	graph, scc, matrix or optimized bf, [using t	n 77	6.25	p5
Summer sell-off	CF810-D2-B							0				Video Solution - Solver to be (Java)	greedy	84	2	p2
Minimum Ternary								0					greedy	84	2	Ť
Towers	CF479-D2-B							0					greedy	84	2	
Semifinals	CF378-D2-B							0					greedy	84	2	
The Child and Set								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 T								0				Video Solution - Solver to be (Java)	greedy	84	2.5	р3
Escape from Ston								0					greedy, impl	84	3	
Fixing Typos	CF363-D2-C CF203-D2-C							0					greedy, impl	84 84	3	
Photographer Booking System	CF416-D2-C							0					greedy, sorting greedy, sorting or dp	84	3.5	р3
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	р3
	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								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								0				Video Solution - Dr Mostafa Saad	greedy, math	84	4	
Hiring Staff	CF216-D2-C							0				V54	greedy	84	4	
Star sky Vanya and Exams	CF835-D2-C							0				Video Solution - Solver to be (Java)	greedy, prefix sum 2d	84	4	
Vanya and Exams	ZOJ 1200							0					greedy, sorting greedy, simulation, priority queue	84	4.5	р3
	CF729-D12-D							0					greedy, [pigeonhole principle]	84	4.5	p2
A and B and Intere								0					greedy, (pigeorinole principle) greedy, datastructures or dp	84	4.5	p2 p2
Palindrome Transf								0					greedy, datastructures of up greedy, impl, [reverse thinking]	84	4.5	p2
Marina and Vasya								0					greedy, constructive, [reverse thinking]	84	4.5	p1
Tennis Champions								0					greedy, math, [reverse thinking]	84	4.5	p1
Anya and Ghosts								0					greedy	84	4.5	Ė
Terse princess	CF148-D2-C							0				Video Solution - Eng Mohamed Nasser	greedy, constructive	84	4.5	
Lucky Permutation								0					greedy, constructive	84	4.5	
Balls and Boxes	CF260-D2-C							0				Video Solution - Dr Mostafa Saad	greedy, impl	84	4.5	
	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	р3
End of Exams	<u>CF94-D2-D</u>							0					greedy, math, impl	84	5	р3
	CF1012-D1-A							0					greedy, brute force, sorting	84	5	p2
Queue	CF141-D2-C							0					greedy, constructive	84	5	p2
D'	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 UVA 12325							0				Prove your Solution	greedy, impl greedy, knapsack, math	84	5	p2 p2
	SRM405-D2-1000							0				Trove your colution	greedy, math, strings	84	5	p2
Boring Partition	CF239-D2-D							0				Sol. Find proof (See editorial comments)	greedy, matri, strings greedy, sortings	84	5	p2
No to Palindromes								0				Sol. 1 ind proof (See Editorial Comments)	greedy or bf	84	5	PZ.
	CF709-D2-D							0					greedy, math or pattern or segment tree	84	5.5	р3
	CODECHEF BJUDGE							0					greedy, constructive	84	5.5	р3
	CF1023-D12-E							0					greedy, interactive, constructive	84	5.5	р3
Russian Roulette								0					greedy, math, adhoc	84	5.5	р3
	CF1043-D12-E							0					greedy, sort, prefix sum, [maybe solve srn	£ 84	5.5	р3
DZY Loves Modifie	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
	<u>CF101149-GYM-G</u>							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	р3
	CF867-D12-E							0					greedy, observations	84	6	p3
Toppic Carri	SRM392-D1-1000							0					greedy, bf, mask, impl	84	6	p2
Tennis Game Wasted Time	CF496-D2-D CF127-D2-A							0					greedy, bf, impl impl	84 86	1.5	
Juicer	CF709-D2-A							0				Video Solution - Solver to be (Java)	impl	86	1.5	
Anton and Polyher								0				Video Solution - Solver to be (Java) 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 Postca								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								0					impl	86	2	p2
Non-square Equat								0					impl	86	2	
Flag Day	<u>CF357-D2-B</u>							0					impl	86	2	
Sereja and Mirrori								0					impl	86	2	
Little Pony and So								0					impl	86	2	
MUH and Importar								0					impl	86	2	
Gena's Code	CF614-D2-B							0					impl	86	2	
Opposites Attract								0					impl	86	2	
Little Pigs and Wo								0					impl	86	2	
Cosmic Tables Prime Matrix	CF222-D2-B							0					impl	86 86	2	
Wet Shark and Bis	CF271-D2-B CF621-D2-B							0				Video Solution - Eng Mahmoud Mabrok	impl	86	2	
THE SHALK AND BIS	CF1030-D12-B							0				video Solution - Eng Manimoud Mabrok	impl impl math	86	2	
Facetook Priority \								0					impl, math	86	2	
Queue								0					impl, sorting	86	3	n2
Hanoi Tower	<u>CF490-D2-B</u> <u>TIMUS 1054</u>							0				Sol	graph, constructive, adhoc impl, recursion, tower of hanoi	86	3	p2 p2
Treasure	CF495-D2-C							0				<u></u>	impl, recursion, tower of nanoi	86	4	PE
Game	CF495-D2-C CF69-D2-C							0					impl	86	4	
Accordian Patienc								0				Video Solution - Eng Moaz Rashad	impl	86	4	p1
Beautiful Sets of F								0				LING MORE I CASHAU	impl, constructive	86	4	PI
Appleman and To								0				Sol	impl, constructive	86	4	
FF Hurr and 10	CF581-D2-D							0				_	impl impl	86	4.5	p2
Three Logos																
Three Logos Guess Your Way								0				Video Solution - Dr Mostafa Saad	impl, math	86	4.5	p2

ff	Problem Code	Status	Count Tir	me(m) Thinking Time(m) Time(m)	Debug Time(m)	Total Time(m)		By yourself?	Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Leve	l Quality
Mafia	AC Averages => CF349-D2-C	0	0	0 0	0	0	0	0	0	0	0	impl, math	86	5	p2
Unusual Product							0					impl, math, [symbolic thinking]	86	5	p1
	CF101187-GYM-F						0				Sol	impl	86	5.25	
Special Grid	CF435-D2-D						0					impl, greedy	86	5.5	p2
Theatre Square	CF1-D12-A CF1204-D2-A						0				Video Solution - Solver to be (Java) Video Solution - Dr Mostafa Saad	math	87 87	1.5	-0
Balanced Rating C							0				Video Solution - Di Wostala Saad	math, log, binary, pattern observation math, analysis	87	2	p2 p3
-	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							0				Sol	math	87	2	
Adding Reversed I							0				Don't use big integer class. Write simple array or	math, combinatorics, bitmasks	87 87	2	-2
Dreamoon and Wi	CF1051-D2-B						0				Video Solution - Eng Mohamed Adel	math, combinatorics, bitmasks	87	2.5	p3
	CF148-D2-B						0					math	87	2.5	
Restoring Painting							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	-
Polycarpus' Dice	CODECHEF GCDMOD	2					0				Sol usesint128 to avoid overflow	math,int128	87 87	3	p3
Polycarpus Dice	CF334-D2-C CF1059-D2-C						0				Sol	math, greedy, careful impl math, constructive	87	3	p3 p3
Number Sequence							0					math	87	4	p2
Divisible by Seven							0					math, number theory	87	4	p2
Fractions Again?!							0				Sol to read	math, number theory	87	4	p1
Plant	CF186-D2-C						0					math	87	4	
Magic Formulas Duff in Love	CF424-D2-C CF588-D2-B						0					math math	87 87	4	
	UVA 10110						0				Video Solution - Eng Amr Saud	math	87	4	
Power of Cryptogra							0				Sol to read	math, log, [double limits]	87	4	р3
Round Table Knigl							0					math or dp	87	4	
Lucky Permutation							0					math, constructive	87	4	
Vasya and Petya's	CF577-D2-C CF1239-D1-A						0					math, impl math, pattern	87 87	4.25	p2 p3
The ? 1 ? 2 ? ?							0					math or binary search	87	4.25	p3 p2
Secrets	CF334-D2-C						0					math	87	4.5	1
The Meaningless ((CF834-D2-C						0				Video Solution - Solver to be (Java)	math	87	4.5	
	CF353-D2-C						0					math, bits	87	4.5	
Plus and Square F							0					math, constructive	87	4.5	
Bear and Prime 10	CF1040-D2-D						0					math, constructive, interactive math, randomization, binary search, interactive	87	4.5	p4
Count Good Subst							0					math, adhoc, palyndromes, [short code]	87	5	р3
Tavas and Karafs							0					math, binary search	87	5	p2
As Fast As Possib	CF701-D2-D						0					math, binary search, precision	87	5	p2
	CF955-D2-C						0					math, number theory	87	5	p2
	CF45-D12-D						0					math, randomization	87 87	5	p2
Ciel and Robot Crazy Town	CF322-D2-C CF499-D2-C						0				Video Solution - Dr Mostafa Saad	math, impl, [cases] math, number theory, greedy	87	5	p1 p1
	CF199-D2-C						0				VIGGO GOIGION DI MODIGIA CAGO	math	87	5	Ρ.
DNA Alignment	CF520-D2-C						0					math	87	5	
Predict Outcome of							0					math, equations, impl	87	5	p2
Analyzing Polyline							0					math, sortings	87	5	-
Quantity of Strings	CF1016-D12-D						0					math, xor, bitwise, constructive math, repeated squaring, graph	87 87	5.25	p3 p4
How many trees?							0					math or dp_tree	87	5.5	p4 p2
The Errant Physici							0				Sol	math	87	5.5	-
Software CRC	UVA 128						0				Video Solution - Eng Moaz Rashad	math	87	5.5	
	CF352-D2-D						0				Sol	math or dp_expectation	87	6	р3
	CF84-D2-B						0				Vita Odria Es Vita Adam	math, combinatorics	89	2.5	
	CF617-D2-B CF79-D12-B						0				Video Solution - Eng Yahia Ashraf Video Solution - Solver to be (Java)	math, combinatorics math, mod	89 89	2.5	р3
The World is a The							0				Video Solution - Eng Youssef Ali	math, combinatorics	89	4	ро
	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	р3
	CF459-D2-C						0					math, combinatorics, constructive	89	5	p3
Shaass and Lights	HACKR ajourney						0				Video Solution - Dr Mostafa Saad	math, combinatorics, first/last k digits 2^n, [math. combinatorics	89	5.5	p3 p4
sno Eighto	CF869-D2-C						0					math, combinatorics or dp_counting	89	5.5	р3
Tourist Problem	CF340-D2-C						0					math, combinatorics, impl	89	5.5	p1
Fox Dividing Chee							0				Video Solution - Eng Abanob Ashraf	math, factorial	94	2.5	L
	UVA 153						0				Sol	math, factorial, permutations, dublicates, fa		4.5	р3
	UVA 583 CF236-D2-B						0				Video Solution - Eng Yahia Ashraf	math, factorization math, factorization	95 95	3	
Easy Number Cha Mr. Azad and his S							0				Sol to read	math, factorization	95	3	
	UVA 516						0					math, factorization	95	3	
Perfect P-th Power	UVA 10622						0				Video Solution - Eng Moaz Rashad	math, factorization	95	4	p1
	UVA 10139						0				Sol to read	math, factorization, primes, [factorize x!]	95	4	1
	CF1047-D2-C						0					math, factorization	95	4.5	р3
	UVA 547 UVA 10174						0					math, factorization, divisors sum, multiview math, factorization, case analysis	95 95	4.5 5	
	UVA 11347						0					math, factorization, divisors sum	95	5	
	CF1033-D12-D						0					math, factorization	95	5.5	р3
Remainders Game	CF688-D2-D						0					math, factorization, gcd, lcm, observations		6	p4
	SPOJ PROOT						0				Sol	math, factorization, primitve roots	95	6.25	
	UVA 12869						0				Sol	math, formula	98	5	p2
	UVA 369 UVA 412						0				Video Solution - Eng Mohamed Adel	math, gcd, comb formula math, gcd	99 99	2	
	CF88-D2-C						0				Video Solution - Eng Worlamed Adel Video Solution - Solver to be (Java)	math, gcd or adhoc	99	4	
	UVA 10717						0				Sol	math, gcd, lcm	99	4	
	CF592-D2-C						0					math, gcd, lcm, [overflow]	99	4.5	р3
	UVA 10892						0					math, gcd, lcm	99	4.5	
	CF344-D2-C						0					math, gcd	99 99	5	р3
												math, gcd, lcm	99	5.5	p1
LCM Challenge	CF236-D2-C CF1010-D1-C						U								
LCM Challenge	CF1010-D1-C AtCoder026-AGC-B						0				Sol	math, gcd, mod, number theory math, gcd, cases	99	6	p3

ff	Problem Code	Status		ime(m)	Time(m)						Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Leve	Qualit
The Lottery	AC Averages => UVA 10325	0	0	0	0	0	0	0	0	0	0	Sol Sol	math, inclusion-exclusion, gcd, overflow	101	4	
THE LOUETY	CF101933-GYM-K							0				Sol	math, inclusion-exclusion	101	4	
	CF372-D1-B							0				SM		101	5.75	p2
	SPOJ MSKYCODE							0				Sol		101	6	p3
	CF101992-GYM-D							0				Sol	math, inclusion-exclusion	101	6	р3
Equation	UVA 727							0					math, infix to postfix	102	4	
Farm	TIMUS 1349							0				Know Fermat's Last Theorem (Ignore proof)	-	104	2	p2
Summation of Pol								0						104	2	
	HACKR tower-3-colorin							0				Learn Fermat's little theorem	-	104	3	p1
R U Kidding Mr. F								0						104	3.5	
Polly the Polynom								0					math, math_adhoc, polynomials	104	3.5	
Jzzhu and Sequer Mirror, Mirror	UVA 466							0						105 105	2.5	p1
Clear Symmetry	CF202-D2-C							0						105	4	Pi
End of Fun	SPOJ DCEPC12E							0						105	4.5	
Uniform Generato								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	р3
	UVA 12952							0					math, probability, formula	113	2	
Cows and Cars	UVA 10491							0				Revise Probability	math, probability, formula, fraction style	113	2	
What is the Proba	t <u>UVA 10056</u>							0				Sol		113	3	
	HACKR sherlock-and-p							0				Sol		113	3	
								0				Sol		113	4	p2
Another lottery	UVA 11628							0				Sol	,	113	4	
Mushroom Scienti								0				Col		113	5	p4
	CF101864-GYM-A SRM537-D2-1000							0				Sol		113 113	5	p2 p2
Airplane	UVA 12461							0				Sol		113	5	p1
Probability	UVA 12461 UVa 11346							0				Sol		113	5.25	р3
	SRM285-D1-500							0				_	math, probability, integration	113	5.5	, -
	CF26-D12-D							0				Sol - must read	math, probability, factorial, logarithm, combi		5.5	р3
	CF442-D1-B							0						113	5.5	р3
	SRM352-D2-1000							0					math, probability, recursion, precision	113	5.5	
	CF513-D12-C							0				Sol	math, probability, bitmasks or dp_probability	113	6	р3
	UVA 557							0				Sol	math, probability, combinatronics	113	6	
	SPOJ FUNPROB							0				Sol		113	6	
	CF163-D12-C							0						113	6.25	
	CF110-D2-D							0						113	6.25	
God, Save me	UVA 10777							0				Sol	math, probability, expectation or dp_probab	114	4	
	SRM458-D2-500 CF839-D2-C							0					,	114	4	
	HACKR lazy-sorting							0				Revise Expected Value	math, probability, expectation, permutation		4	
Andrey and Proble								0				Sol	math, probability, expectation, greedy or dp		4.5	р3
Wet Shark and Flo								0						114	4.5	
Little Pony and Ex	CF454-D2-C							0						114	4.5	
	HACKR vertical-sticks							0					math, probability, expectation, linearity of ex	114	5	р3
	SRM577-D1-250							0					math, probability, expectation, linearity of ex	114	5	р3
	SRM470-D1-500							0					math, probability, expectation	114	5.5	p2
	CF500-D12-D							0					, ,,	114	5.5	p2
	CF280-D1-C							0						114	6	р3
Playlist	CF268-D2-E							0				Sol	math, probability, expectation, formula, gree		6	р3
Big Mod	UVA 374							0						115	3	
Twin Primes Factorial Factors	UVA 10394							0						117 117	3.5	
Psycho	SPOJ PSYCHON							0					math, sieve, factorization math, sieve, factorization, tricky big # test ci		4	p2
Summation of Fou								0				Video Solution - Eng Moaz Rashad		117	4	P-
Primes or Palindro								0				Tideo colonior Eng mode records		117	4.5	р3
Divisibility of Factor								0				Sol to read		117	4.5	p2
	LIVEARCHIVE 4008							0					math, sieve, [last non zero digit of permutat	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								0					,	118	4.5	р3
Dreamoon and Su								0				<u>Video Solution - Dr Mostafa Saad</u>		118	5	рЗ
	CF201-D1-B							0					math, summations, seperate summations of		5	p2
Spongebob and S								0				0.1 D. W		118	6	p2
R2D2 and Droid A	SPOJ HISTOGRA							0				Sol. Don't implement as adhock/greedy/Pure ST Use mq		122	4.5 5	p4 p3
Friends and Subs								0					rmq, sparce table, binary search or datastru		5	р3
Pair of Numbers								0				Sol	rmq, binary search, gcd, analysis or stack		5.5	p2
								0				_		123	4.5	-
Square Subsets	CF448-D2-C							0						125	2	р3
Square Subsets Potentiometers	CF448-D2-C LIVEARCHIVE 2191							0						125	2	
														125	3.5	
Potentiometers	UVA 12532 SPOJ CDC12_H							0					segment tree	125		р3
Potentiometers Interval Product Halt The War Multiples of 3	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12_H SPOJ MULTQ3							0				Sol	segment tree, lazy propagation	125	4	
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12_H SPOJ MULTQ3 SPOJ HORRIBLE							0 0 0				Sol	segment tree, lazy propagation segment tree, lazy propagation or bit	125 125	4	p1
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12_H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ CNTPRIME							0 0 0				Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve	125 125 125	4	p1 p1
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12_H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ CNTPRIME SPOJ KGSS							0 0 0 0					segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, [max pair sum]	125 125 125 125	4 4 4.5	p1 p1 p3
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12_H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ KONTPRIME SPOJ KGSS SPOJ CITY2							0 0 0 0 0				Sal	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, [max pair sum] segment tree or adhoc	125 125 125 125 125 125	4 4 4.5 4.5	p1 p1 p3 p2
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2!	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12_H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ CNTPRIME SPOJ KGSS SPOJ CITY2 SPOJ HELPR2D2							0 0 0 0 0					segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, [max pair sum] segment tree or adhoc segment tree, impl	125 125 125 125 125 125 125	4 4 4.5 4.5 4.5	p1 p1 p3 p2 p2
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching	LIVEARCHIVE 2191 UVA 12532 SPOJ.CDC12_H SPOJ.MULTO3 SPOJ.HORRIBLE SPOJ.CNTPRIME SPOJ.KGSS SPOJ.CITY2 SPOJ.HELPR2D2 SPOJ.LITE							0 0 0 0 0 0					segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, slewe segment tree, slewe segment tree, [max pair sum] segment tree, impl segment tree, lazy propagation, [edu]	125 125 125 125 125 125 125 125	4 4 4.5 4.5 4.5 4.5	p1 p1 p3 p2
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching Circular RMQ	LIVEARCHIVE 2191 UVA 12532 SPOJ. CDC12. H SPOJ.MULTO3 SPOJ. HORRIBLE SPOJ. CNTPRIME SPOJ. CNTPRIME SPOJ. CITY2 SPOJ. HELPR2D2 SPOJ. HELPR2D2 SPOJ. HELPR2D2 SPOJ. HELPR2D2 SPOJ. HELPR2D2							0 0 0 0 0 0 0				Sal	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, inax pair sum] segment tree (max pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular	125 125 125 125 125 125 125 125 125	4 4 4.5 4.5 4.5 4.5 4.5	p1 p1 p3 p2 p2 p1
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching Circular RMQ Brackets	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12 H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ CNTPRIME SPOJ CNTPRIME SPOJ CITY2 SPOJ HELPR2D2 SPOJLITE CF52-D12-C SPOJ BRCKTS							0 0 0 0 0 0 0				Sol Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, insve segment tree, imax pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, [bracket balance, 2 values in	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 4.5 5	p1 p1 p3 p2 p2 p1
Potentiometers interval Product	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12 H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ CNTPRIME SPOJ CNTPRIME SPOJ CITY2 SPOJ HELPR2D2 SPOJLITE CF52-D12-C SPOJ BRCKTS							0 0 0 0 0 0 0				Sol Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, slewe segment tree, slewe segment tree, [max pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, (edu) segment tree, lazy propagation, circular segment tree, lazy segment tree, lazy for segment tree, lazy for segment tree, lazy segment tree, lazy segment tree, lazy sum, part of gss series.	125 125 125 125 125 125 125 125 125 125	4 4 4.5 4.5 4.5 4.5 4.5	p1 p1 p3 p2 p2 p1
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching Circular RMQ Brackets Can you answer tl RMQ with Shifts	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12 H SPOJ MULTO3 SPOJ HORRIBLE SPOJ CITYPRIME SPOJ KORS SPOJ CITY2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ LECTO SPOJ BRCKTS SPOJ CSSS1 UVA 12299							0 0 0 0 0 0 0 0				Sol Sol See sscanf and sprintf usage	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, [max pair sum] segment tree or adhoc segment tree impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, [bracket balance, 2 values in segment tree, [max sum, part of gss series: segment tree, my shift	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 4.5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p2 p2 p1
Potentiometers Interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching Circular RMQ Brackets Can you answer th	LIVEARCHIVE 2191 UVA 12532 SPOJ. COLO12. H SPOJ. MULTO3 SPOJ. HORRIBLE SPOJ. KIPRIME SPOJ. KGSS SPOJ. CITY2 SPOJ. HLPR2D2 SPOJ. LITE CF52-D12-C SPOJ. BROKKTS SPOJ. GSS1							0 0 0 0 0 0 0 0 0 0				Sol Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, seve segment tree, seve segment tree, [max pair sum] segment tree or adhoc segment tree, impl segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, [bracket balance, 2 values in segment tree, [max sum, part of gss series: segment tree, rmq shift	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 4.5 5 5	p1 p1 p3 p2 p2 p1 p3 p3
Potentiometers interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching Circular RMQ Brackets Can you answer tt AND Rounds Ahoy, Pirates!	LIVEARCHIVE 2191 UVA 12532 SPOJ. DC12_H SPOJ. MULTO3 SPOJ. HORRIBLE SPOJ. CNTPRIME SPOJ. GNTPRIME SPOJ. GNTPRIM							0 0 0 0 0 0 0 0 0 0				Sol Sol See secant and sprintf usage Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, imax pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, [lazy propagation, circular segment tree, [max sum, part of gss series: segment tree, rma shift segment tree, rmq shift segment tree.	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 4.5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p3 p2
Potentiometers interval Product -latt The War -latt The Wa	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12 H SPOJ MULTO3 SPOJ HORRIBLE SPOJ CITY2 SPOJ HELPR2D2 SPOJ LELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ BRCKTS SPOJ SPOJ BRCKTS SPOJ GSS1 UVA 12299 SPOJ ANDROUND UVA 11402 CF460-D2-C							0 0 0 0 0 0 0 0 0 0 0				Sol Sol See secant and sprintf usage Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, [max pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, lazy propagation, circular segment tree, [bracket balance, 2 values in segment tree, [max sum, part of gss series: segment tree, may shift segment tree segment tree, lazy propagation or datastruc segment tree, lazy propagation, greedy or b	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 4.5 5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p3 p2 p2
Potentiometers interval Product -latt The War -latt The Wa	LIVEARCHIVE 2191 UVA 12532 SPOJ CDC12 H SPOJ MULTO3 SPOJ HORRIBLE SPOJ CITY2 SPOJ HELPR2D2 SPOJ LELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ HELPR2D2 SPOJ BRCKTS SPOJ SPOJ BRCKTS SPOJ GSS1 UVA 12299 SPOJ ANDROUND UVA 11402 CF460-D2-C							0 0 0 0 0 0 0 0 0 0 0 0 0				Sol Sol See sscanf and sprintf usage Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, [max pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, lazy propagation, circular segment tree, [bracket balance, 2 values in segment tree, [max sum, part of gss series: segment tree, may shift segment tree segment tree, lazy propagation or datastruc segment tree, lazy propagation, greedy or b	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 4.5 5 5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p3 p2 p2
Potentiometers interval Product Halt The War Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching Circular RMQ Brackets Can you answer It RMQ with Shifts AND Rounds AND Rounds AND Rounds Present Fence Obstacle C	LIVEARCHIVE 2191 UVA 12532 SPOJ CHOC12 H SPOJ MULTO3 SPOJ HORRIBLE SPOJ KGSS SPOJ CITY2 SPOJ HELPR2D2 SPOJ HLPR2D2 SPOJ HLPR2D2 SPOJ HLPR2D2 SPOJ BRCKTS SPOJ GSS1 UVA 12299 SPOJ ANDROUND UVA 11402 CF460-D2-C ACKU 2374 CF61-D2-E							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Sol Sol See sscanf and sprintf usage Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, finax pair sum] segment tree or adhoc segment tree, impal segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, lazy propagation, circular segment tree, [bracket balance, 2 values in segment tree, may sum, part of gas series: segment tree segment tree segment tree segment tree, lazy propagation or datastruc segment tree, lazy propagation, greedy or to segment tree, dp or dp	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p2 p2 p1
Potentiometers interval Product -latl The War Multiples of 3 -forrible Queries Counting Primes Maximum Sum A Famous City -leip R2-D2! -light Switching Circular RMQ Brackets -Can you answer tt RMQ with Shifts AND Rounds Ahoy, Pirates! -Present -Ence Obstacle C Can you answer tt	LIVEARCHIVE 2191 UVA 12532 SPOJ CHOC12 H SPOJ MULTO3 SPOJ HORRIBLE SPOJ KGSS SPOJ CITY2 SPOJ HELPR2D2 SPOJ HLPR2D2 SPOJ HLPR2D2 SPOJ HLPR2D2 SPOJ BRCKTS SPOJ GSS1 UVA 12299 SPOJ ANDROUND UVA 11402 CF460-D2-C ACKU 2374 CF61-D2-E							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Sol Sol See sscanf and sprintf usage Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, slewe segment tree, slewe segment tree, [max pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, (edu) segment tree, lazy propagation, circular segment tree, [max sum, part of gss series: segment tree, [max sum, part of gss series: segment tree, apart propagation or datastruc segment tree, lazy propagation or datastruc segment tree, lazy propagation, greedy or be segment tree, dp or dp segment tree, dp or dp segment tree, dp or dp segment tree, or wevelet tree, [boring, inversement segment tree, dp or dp	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p2 p2 p2 p2 p2 p1
Potentiometers interval Product -latl The War Multiples of 3 -forrible Queries Counting Primes Maximum Sum A Famous City -leip R2-D2! -light Switching Circular RMQ Brackets -Can you answer tt RMQ with Shifts AND Rounds Ahoy, Pirates! -Present -Ence Obstacle C Can you answer tt	LIVEARCHIVE 2191 UVA 12532 SPOJ CHOC12 H SPOJ MULTO3 SPOJ HORRIBLE SPOJ CITY2 SPOJ HELPRD2 SPOJ HELPRD2 SPOJ HELPRD2 SPOJ HELPRD2 SPOJ HELPRD2 SPOJ HELPRD2 SPOJ HALPRD2 SPOJ CITY2 SPOJ GSS1 UVA 11299 SPOJ ANDROUND UVA 11402 CF460-D2-C RKU 2374 CF61-D2-E T SPOJ GSS3							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Sol Sol See sscanf and sprintf usage Sol Sol Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, sieve segment tree, [max pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, lazy propagation, circular segment tree, [trax sum, part of gss series: segment tree, [max sum, part of gss series: segment tree, azy propagation or datastruc segment tree, lazy propagation, greedy or b segment tree or wavelet tree, [boring, inversegment tree, [max sum+updates, spoj gss	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p2 p2 p2 p2 p2 p2 p5
Potentiometers interval Product Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Heip R2-D2! Light Switching Circular RMQ Brackets Can you answer the RMQ with Shifts AND Rounds Ahoy, Pirates! Present Fence Obstacle Coan you answer the Sum of Squares was Sum of Squares was Ference Obstacle Coan you answer the Sum of Squares was Sum of Squares was Ference Obstacle Coan you answer the Sum of Squares was Sum of Squares was Ference Obstacle Coan you answer the Sum of Squares was Ference Obstacle Coan you answer the Ference Stacle Coan you answer the Ference Stacle Coan you answer	LIVEARCHIVE 2191 UVA 12532 SPOJ LOCI2 H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ KGSS SPOJ CITY2 SPOJ HLPR2D2 SPOJ LITE CF52-D12-C SPOJ SSS1 UVA 12299 SPOJ SSS1 UVA 12299 SPOJ SSS1 VYA 12299 SPOJ SSS1 SPOJ CF68-D2-C SPOJ SSS2 SPOJ SSS5 SPOJ SSSSSSSSSS SPOJ SSSSSSSSSSSSSSSSSSSSSSSSSSSPOJ AVA SPOJ SSSSSSSSSSSSSSSSSPOJ AVA SPOJ SSSSSSSSSSSSSSSSSSSSSPOJ AVA SPOJ SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Sol Sol See sscanf and sprintf usage Sol Sol Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, slewe segment tree, slewe segment tree, [max pair sum] segment tree or adhoc segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, [tazy propagation, circular segment tree, [max sum, part of gss series: segment tree, [max sum, part of gss series: segment tree, may shift segment tree, lazy propagation or datastruc segment tree, lazy propagation, greedy or be segment tree, dp or dp segment tree, [max sum+updates, spoj gss segment tree, lazy propagation, impressegment tree, [max sum+updates, spoj gss segment tree, [-=spoj gss5], [spoj gss1]	125 125 125 125 125 125 125 125 125 125	4 4 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p3 p2 p2 p2 p1 p1 p3
Potentiometers interval Product Halt The War Halt The War Multiples of 3 Horrible Queries Counting Primes Maximum Sum A Famous City Help R2-D2! Light Switching Circular RMQ Brackets Can you answer the RMQ with Shifts AND Rounds Ahoy, Pirates! Present Fence Obstacle C Can you answer the RMQ Switch Shifts RMQ Rounds RMO ROUNDS RESERVENT	LIVEARCHIVE 2191 UVA 12532 SPOJ LOCI2 H SPOJ MULTQ3 SPOJ HORRIBLE SPOJ KGSS SPOJ CITY2 SPOJ HLPR2D2 SPOJ LITE CF52-D12-C SPOJ SSS1 UVA 12299 SPOJ SSS1 UVA 12299 SPOJ SSS1 VYA 12299 SPOJ SSS1 SPOJ CF68-D2-C SPOJ SSS2 SPOJ SSS5 SPOJ SSSSSSSSSS SPOJ SSSSSSSSSSSSSSSSSSSSSSSSSSSPOJ AVA SPOJ SSSSSSSSSSSSSSSSSSPOJ AVA SPOJ SSSSSSSSSSSSSSSSSSSSSPOJ AVA SPOJ SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Sol Sol See sscanf and sprintf usage Sol Sol Sol Sol Sol	segment tree, lazy propagation segment tree, lazy propagation or bit segment tree, siewe segment tree, [max pair sum] segment tree, [max pair sum] segment tree, impl segment tree, lazy propagation, [edu] segment tree, lazy propagation, circular segment tree, lazy propagation, circular segment tree, [max sum, part of gss series: segment tree, [max sum, part of gss series: segment tree, may shift segment tree segment tree, lazy propagation or datastruc segment tree, lazy propagation, greedy or to segment tree, lazy propagation, greedy or to segment tree, lazy segment tree, [max sum+updates, spoj gss segment tree, [max sum+updates, spoj gss segment tree, [respoj gss5], [spoj gss1] segment tree, [respoj gss5], [spoj gss1] segment tree or bit, [classical]	125 125 125 125 125 125 125 125 125 125	4 4.5 4.5 4.5 4.5 5 5 5 5 5 5 5 5 5 5 5	p1 p1 p3 p2 p2 p1 p3 p3 p3 p3 p3 p2 p2 p2 p1 p1 p1 p5 p4 p3

ff	Problem Code	Status	Submit F Count	Time(m)	Thinking Time(m)	Time(m)		Total Time(m)	Problem Level /10	By yourself?		1-2 line Comments about your approach is interesting?	Mostafa Category	Category Code	Leve	Quality
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	0				
	SPOJ BRCKTS2							0				Sol	segment tree, prefix sums or adhoc, recursi		6	р3
	TIMUS 1638							0				Can you get AC first submission	simulation, formula, [was, tricky]	126	2	p2
	TIMUS 1607							0				Can you get AC first submission?	simulation, tricky	126	2	p1
The Blocks Proble								0					simulation	126	3	
	PKU 3461							0					string processing, kmp, [count word frequen		2	
A Needle in the Ha								0					string processing, kmp, [find words position		3	
Finding the Tesser								0					string processing, kmp	130	4	p4
	SPOJ PERIOD							0					string processing, kmp, period max or suffix		4.5	p3
Prefixes and Suffix ©													string processing, kmp or z-function	130	5	p3
Tavas and Maleka G								0					string processing, kmp or z-function, [~cf12]		5	p3
	CF1147-D1-B												string processing, kmp	130	5.25	p2
_	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 S Cellphone Typing	SPOJ PHONELST							0					string processing, trie	135	3.5	
								0					string processing, trie	135	4.5	p3
Search in the dictic	UVA 1556							0					string processing, trie, trie using map, pretty		4.5	p3
Vasiliy's Multiset								0					string processing, trie	135 135	4.5	p2
	LiveArchive 8015							0				Sol	string processing, trie string processing, trie	135	5.25	p2 p4
	CF842-D2-D							0				301	string processing, trie, [xor]	135	5.5	p3
	CF665-D12-E							0					string processing, trie, [xor]	135	5.5	p3
	LiveArchive 4682							0				Sol	string processing, trie	135	5.5	ро
	CF455-D1-B							0				<u> </u>	string processing, trie	135	5.5	
	CF216-D2-D							0					two pointers or adhoc	138	3.5	
	CF252-D2-C							0					two pointers or binary search, combinatorics		4	p2
	CF155-D2-C							0					two pointers or dp	138	4.5	ř
	CF1043-D12-D							0					two pointers of up two pointers, [different solutions]	138	5	р3
	CODECHEF REDCGA							0					two pointers	138	5	p2
Sereja ans Anagra								0				Sol	two pointers or adhoc or kmp-like	138	5	p2
Vasya and String								0				_	two pointers	138	5	
To Add or Not to A								0					two pointers, binary search	138	5	
	CF224-D2-D							0				Sol	two pointers	138	5.5	р3
	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								0					two pointers or segment tree	138	5.5	P-
						Caregory (Code to ma	atch with	Col O	Learning C	Order	Video				
1- Column K (learnin	ing order) is same									1		Watch - Approaching Problem Statement				
order as the sheets	A-D									2		Watch - Thinking - On papers Not on PC				
2- You may follow th	nis order to learn									3		Watch - Measuring Algorithms Perfromance -	1			
3- Column G is the	category code as in									4		Watch - Elementary Math - Introduction				
Column O 4- Example: You lea	arned DFS. Codes for					109				5		Watch - Number Theory - Modular Arithmatic				
it are 60, 61, 63. Go	o and solve as u want					89, 101				6		Watch - Combinatorics - Counting Principles				
from the problems w UVA 10461	with these codes. E.g.									7		Watch - Graph Theory - Intro				
UVA 10461						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 - Appro	ach_			
										14		Study STL				
						89, 101				15		Watch - Combinatorics - Permutations and Co	ombinations - 1			
						89, 101				16		Watch - Combinatorics - Permutations and Co	ombinations - 2			
										17		Watch - Training-Secrets of Success				
										18		Watch - Training-Secrets of Success				
						99				19		Watch - Number Theory - Fib, GCD, LCM, Pov	<u>v</u>			
										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 I				
						48				26		Watch - Computational Geometry - Lines and	<u>Distances</u>			
										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 Polynon	nials			
										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				
										43		Watch - DP - Nested Ranges Style				
						32										
										44		Watch - DP - General Ranges Style				
						32				44 45		Watch - Thinking - Incrementally				
						32 32				44 45 46			retation			
						32 32 95				44 45 46 47		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization	etation			
						32 32				44 45 46 47 48		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization Watch - Probability - First 9 videos				
						32 32 95				44 45 46 47 48 49		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output				
						32 32 95 113				44 45 46 47 48 49 50		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpol Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output. Watch - Thinking - Observations Discovery				
						32 32 95				44 45 46 47 48 49		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output. Watch - Thinking - Observations Discovery Watch - Game Theory - Intro	Analysis			
						32 32 95 113				44 45 46 47 48 49 50 51 52		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output Watch - Thinking - Observations Discovery Watch - Game Theory - Intro Watch - Thinking - Misc - Solution Verification	Analysis			
						32 32 95 113 41				44 45 46 47 48 49 50 51		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output. Watch - Thinking - Observations Discovery Watch - Game Theory - Intro	Analysis			
						32 32 95 113 41 64				44 45 46 47 48 49 50 51 52		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output. Watch - Thinking - Observations Discovery Watch - Game Theory - Intro Watch - Thinking - Mise - Solution Verification Watch - Game Theory - Dijkstra Watch - Gamp Theory - Dijkstra Watch - Computational Geometry - Lines Inte	Analysis 1 - Implementation			
						32 32 95 113 41				44 45 46 47 48 49 50 51 52 53 54 55		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpt Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output. Watch - Thinking - Observations Discovery Watch - Thinking - Observations Discovery Watch - Thinking - Misc - Solution Verification Watch - Graph Theory - Dijkstra Watch - Graph Theory - Dijkstra Watch - Computational Geometry - Lines Inte Watch - Computational Geometry - Circles	Analysis 1-Implementation			
						32 32 95 113 41 64				44 45 46 47 48 49 50 51 52 53 54		Watch - Thinking - Incrementally Watch - Thinking - Problem Domain re-interpr Watch - Number Theory - Factorization Watch - Probability - First 9 videos Watch - Thinking - Search Space and Output. Watch - Thinking - Observations Discovery Watch - Game Theory - Intro Watch - Thinking - Mise - Solution Verification Watch - Game Theory - Dijkstra Watch - Gamp Theory - Dijkstra Watch - Computational Geometry - Lines Inte	Analysis 1-Implementation			

ff	Problem Code	Status	Submit	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			
						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	2		
						62				63		Watch - Graph Theory - Tree Diameter and Ison	morphism		
						114				64		Watch Video - Expected Value			
						122, 125				65		Watch - Data Structures - Segment Tree (2 vid)	l		
						38				66		Reading: DP on Trees			
						138				67		Watch - Two pointers technique			
						29				68		Watch - DP - Probability			
						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 Ar	rea - Centroid - Cut		
						49				76		Watch - Computational Geometry - Point in po	lygon		
						71,72,74				77		Watch - Graph Theory - Maximum Flow (2 vid)			
						77				78		Watch - Graph Theory - SCC (2 vid)			

AC Averages =>	0 0	0 0									
	- Problems in this	topics2 page dor	't exist in any	other sheet	(A, B, C, E	D, Topics1)					
	 For juniors, you These topics rep 										
	 Problems per to; 	pic cover range of	easy to medic	ım level (har	d Div2-D)		h bf				
	- 50-70% of the pr	roblems here will	e trainees whose of right leve	o want to exp el/quality. How	wever, ma	ny of them	are not evalu	going deeper or whoever want to e ated by enough (or no) trainees. N	More future refinements		
	may occur based	on feedback						•			
	- Help me refine to		hese cases:								
	- Problem of 'p3, p	04, p5' quality but									
	 Problem of 'emp Problem of really 										
						icvei					
	If any of these iss	ues, email me: m	ostafa.saad.fci	@gmail.com							
	Also, if a problem	doesn't have an	editorial and yo	ou could prov	ride it = gre	eat!					
											_
SRM629-D2-500 SPOJ KOPC12A									ternary search	10	3
SPOJ KOPC IZA SPOJ TRICKTRT									ternary search ternary search	10	3
CF439-D2-D								Read the editorials	ternary search	10	3.5
SRM287-D1-500									ternary search, math	10	4
CF250-D2-D									ternary search, discrete, geometry	10	5
UVA 10385									ternary search, tricky	10	5
CF101102-GYM-I								Sol	ternary search	10	6
CODECHEF AMITNIT									meet in middle, bitmasks	11	3.5
SPOJ SUBSUMS SPOJ ABCDEF									meet in middle meet in middle	11	4
SPOJ SUMFOUR									meet in middle, hashing, [solve SPOJ ABC		4.5
AtCoder026-AGC-C								Sol	meet in middle, bf, hasing	11	5
CF490-D2-D									meet in middle, bfs	11	5
CF525-D2-E									meet in middle, bitmasks, ternarymask	11	5.5
CF1006-D3-F									meet in middle, dp	11	6
CSA67-E									meet in middle, dp, bitmasks, [non standard		6.25
CF585-D1-D SPOJ MATSUM									meet in middle, [strict tl] bit, 2d bit	11	6.25
SPOJ MATSOM SPOJ MSE06H									bit or merge sort, [=SPOJ RATING]	15	4
UVA 1428								Don't use segment tre		15	4
UVA 11495									bit or merge sort, game, [count inversion]	15	4
SRM315-D2-1000									bit or segment tree, [jouseph problem]	15	4.5
SRM424-D1-1000									bit	15	5
SPOJ ORDERSET								Sol Sol	bit or segment tree or bbst, grid compress of		5.5
UVA 12697 CF501-D2-D								Sol-must read	bit or segment tree or solutions-bag bit, factoradics, permutation or order-statist	15	6
SPOJ BRICKS								Sol	bit, count inversion or merge sort, [=CODE		6
UVA 1513								Sol	bit or segment tree, [standard]	15	6
CF538-D12-F									bit or segment tree, math or adhock	15	6.25
SRM488-D1-250									dp, dp_cyclic, dp_expectation or dp_depth	17	5
SRM568-D2-1000								Sol	dp, dp_cyclic, expectation, [algebra handling	17	5
SRM334-D1-500									dp, dp_cyclic	17	6
SRM318-D1-500								0.1	dp, dp_cyclic, expectation or bf, simulation		6
CF102190-GYM-B UVA 11755								Sol Sol	dp, dp_cyclic, dp_probability or dp_depth dp, dp_cyclic, dp_probability or dp_depth o	17	6.25
CF837-D12-D								<u>501</u>	dp, dp_state_reduce	18	5
SRM511-D1-500									dp, dp_state_reduce, dp_games	18	5
LightOJ 1126								Sol	dp, dp_state_reduce, knapsack	18	5.5
CF1140-D12-E									dp, dp_state_reduce, dp_counting	18	6
SRM508-D1-500								Sol	dp, dp_state_reduce, dp_counting	18	6
CF559-D1-C								e _{ol}	dp, dp_state_reduce, dp_counting, inclusio		6.25
CF351-D1-C CF30-D12-C								Sol	dp, dp_state_reduce, matrix pow dp, dp_probability, dp_expectation, max-mi	18	3.5
SRM249-D1-250									dp, dp_probability, dp_expectation, max-mi dp, dp_probability, dp_expectation, recursion		4
TC(BANKLOTTERY)									dp, dp_probability, dp_expectation, recursion		4
SRM518-D2-1000									dp, dp_probability, dp_expectation	30	4.1
SRM402-D2-1000									dp, dp_probability, dp_expectation	30	4.5
SRM533-D2-1000									dp, dp_probability, dp_expectation or expe		5
SRM420-D1-500								Sol	dp, dp_probability, dp_expectation, dp_table		5
UVA 10288 SRM561-D2-1000								Sol	dp, dp_probability, dp_expectation, gcd, fra dp, dp_probability, dp_expectation, linearity		5
CF697-D2-D									dp, dp_probability, dp_expectation; infeating dp, dp_probability, dp_expectation or expe		6
CF602-D2-E									dp, dp_probability, dp_expectation, linearity		6.25
SPOJ MMMGAME									game theory, nim, misere nim, [=LIVEARC		3
SRM558-D2-1000								Sol	game theory, nim	34	3
UVA 11892								pt-1 1-	game theory, nim	34	3
SPOJ HUBULLU PKU 1704								Notes to read	game theory, nim, [need a prove] game theory, nim, [=UVA 11534]	34	3
HACKR MOVE-THE-C								Sol	game theory, nim, [=0VA 11534] game theory, nim, nim on tree	34	6.25
SPOJ QCJ3									game theory, grundy	35	3
UVA 11859									game theory, grundy, seive	35	4.5
CODECHEF PSHTBR									game theory, grundy, segment tree	35	5
HACKER prime-game									game theory, grundy, sieve	35	5
CF88-D2-E									game theory, grundy, dp on segment tree		5.5
CF15-D12-C									game theory, grundy, xor properties or game		5.5
HACKR digits-square- CF256-D1-C									game theory, grundy, primes game theory, grundy, dp on segment tree	35	5.75
CF256-D1-C CF87-D1-C								Sol	game theory, grundy, ap on segment tree game theory, grundy	35	6
CF604-D2-E								30.	game theory, grundy	35	6
TIMUS 1540								Sol	game theory, grundy	35	6
SRM389-D1-1000								Sol	game theory, grundy, bitmasks	35	6
SPOJ TRIOMINO								Sol	game theory, grundy, mex sub-states first,		6
CODECHEF ADAPWN									game theory, grundy, observations	35	6
SPOJ BSHEEP								Sol	geometry, polygon, convex hull	42 42	4.5
LIVEARCHIVE 4558 UVA 11626								Sol Sol	geometry, polygon, convex hull geometry, polygon, convex hull, [print CH]	42	4.5

Name	Problem Code	Status	Count	Time(m)	Thinking Time(m)	Time(m)	Debug Time(m)	Time(m)	Problem Level /10	By yourself?	Category	1-2 line Comments about your approach is interesting?	Mostafa Category	Catego Code	Leve	el C
	AC Averages =>	0	0	0	0	0	0	0	0	0	0		D			
L	UVA 11168											Sol	geometry, polygon, convex hull, distant	es 42	5	
L	UVA 361												geometry, polygon, convex hull, pip	42	5	
L	UVA 10652												geometry, polygon, convex hull, rotate,	ooly 42	6	
L	JVA 10750											Sol	geometry, sweep line, closest pair, [~=l	RI 44	3.5	
5	SPOJ NKMARS											Sol must read - video code has bug	geometry, sweep line, [rectangles area,		4	F
	SPOJ CEPC08B											Sol	geometry, sweep line, polyline or greed		4.5	
	PKU 1177											Sol	geometry, sweep line or segment tree,		5	
	CF101147-GYM-I											Sol	geometry, sweep line, circles	44	5.5	
	CF100622-GYM-C											Sol	geometry, sweep line, [https://github.co		5.5	
	SPOJ NICEDAY												geometry, sweep line or segment tree,		6	
8	SPOJ SHORTCUT											Sol	geometry, sweep line, impl or bf	44	6	
8	SPOJ WILD											Sol	geometry, sweep line, sets	44	6.25	
<u> </u>	HACKR spheres											Sol	geometry, 3d, ternary search	45	3.5	
L	UVA 10297											Sol	geometry, 3d, cones, volumes, formula	45	4	
L	UVA 11817												geometry, 3d, great circle distance	45	4	
	LIVEARCHIVE 2233												geometry, 3d, sphere, floyd	45	4.5	
	CF203-D2-D														5	
													geometry, 3d, impl, math, [physics, kine			
	CF65-D12-C												geometry, 3d, lines, distances, binary s		5	
	SPOJ BLCONE												geometry, 3d, binary search	45	5	
	UVA 11232											Sol	geometry, 3d, [differentiation needed for	prc 45	5.5	
Z	ZOJ 2369											Sol	geometry, 3d, integration, simpson, [cyl	nde 45	6	
L	LIVEARCHIVE 2474												geometry, 3d, sphere, bf, next_permuta	tion 45	6	
L	UVA 10449												graph, bellmanford	47	3	
ı	UVA 10557												graph, bellmanford	47	3.5	
	UVA 558												graph, bellmanford	47	4	
	CF101498-GYM-L											Sol	graph, bellmanford, [~CODECHEF BES			
												<u>Sol</u>			6	
	UVA 11090											Sol	graph, bellmanford, Minimum Mean We		6.25	
	TIMUS 1137												graph, euler tour	54	3.5	
	UVA 117												graph, euler tour, dijkstra	54	3.5	
	UVA 10596												graph, euler tour, is there euler cycle?	54	3.5	
5	SRM268-D1-500											Prove your solution	graph, euler tour, handshaking lemma,	c 54	5	
	UVA 10054												graph, euler tour	54	5	
	CF788-D1-B												graph, euler tour, combinatorics	54	5.25	
	SRM298-D1-500														6	
													graph, euler tour, [solve first SRM268-D			
	CF789-D2-D												graph, euler tour, math, [required a soli		6.1	
<u>C</u>	CF1038-D2-E												graph, euler tour	54	6.1	
8	SPOJ SCITIES												graph, min-cost-max-flow, weighted bip	artiti 59	4.5	
L	UVA 10594												graph, min-cost-max-flow	59	5	
T	TJU 2554												graph, min-cost-max-flow	59	6	
	TC(ANGELDEMONG	4											graph, min-cost-max-flow	59	6	
	LIVEARCHIVE 2884												graph, scc, 2-sat or greedy	62	3	
												6-1				
	SPOJ BUGLIFE											Sol	graph, scc, 2-sat, [simple dfs, Bipartite		4	
	LIVEARCHIVE 4185											Sol	graph, scc, 2-sat	62	5	
2	CF228-D2-E												graph, scc, 2-sat, dsu, topological sort of	r ga 62	5	
<u>C</u>	CF776-D2-D												graph, scc, 2-sat	62	5.5	
2	CF469-D2-D												graph, scc, 2-sat or dsu or greedy	62	6	
(CODECHEF ADAMTI												graph, scc, 2-sat	62	6	
	LIVEARCHIVE 5010											Sol	graph, scc, 2-sat	62	6	
	PKU 2723													62	6	
												Sol	graph, scc, 2-sat			
	UVA 1146											Sol	graph, scc, 2-sat	62	6	
	SRM464-D1-500												graph, scc, 2-sat	62	6.25	
	UVA 10199												graph, scc, articulation point	63	3	
8	SPOJ SUBMERGE												graph, scc, articulation point	63	3	
L	UVA 315												graph, scc, articulation point	63	3	
L	JVA 10765												graph, scc, articulation point or dsu, bf	63	4	
	UVA 796												graph, scc, biconnected components	64	4	
	UVA 610											Sol	graph, scc, biconnected components, [s	CE: 64	5.5	
	SPOJ QTREE2												graph, Ica, [in video, ~=PKU 1986, LIVE		4	
												Sol				
	CF192-D2-E											Sol	graph, Ica, [or with dp, binary lifting]	65	5	
	SPOJ DISQUERY											Sol	graph, Ica, dp, binary lifting, [educations	1], [1 65	5	
<u>C</u>	CF832-D2-D												graph, Ica. math	65	5	
2	CF519-D2-E												graph, Ica, Ica on tree, rmq, impl	65	5.5	
1	TIMUS 1752											Sol	graph, Ica, tree diameter, [~=KATTIS to		5.75	
	CF466-D2-E												graph, Ica or dsu, offline queries	65	6.25	
	CF587-D1-C												graph, Ica, dp, binary lifting, impl or seg		6.25	
	CF863-D12-E											m. 4 . 24	grid compress, prefix sum or segment t		6	
	UVA 870											Find grid-compress based idea	grid compress, rectangles, dfs, counting		6	
	CF243-D1-C												grid compress, dfs or bfs	67	6.5	
ι	UVA 308											Sol	grid compress, flood-fill	67	6.5	
L	UVA 306												math, cyclic permutation	84	3	
	SRM572-D1-250												math, cyclic permutation or dfs	84	3	
	CF986-D1-B												math, cyclic permutation	84	5	
	SRM391-D1-500												math, cyclic permutation, stirling number		5	
	SRM379-D2-1000											Understand TC editorial			5	
												Griderstand 10 editorial	math, cyclic permutation or backtrack, o			
	FbHkrCup 18-R1-B												math, cyclic permutation, dfs, trees	84	5.5	
	SPOJ LEONARDO											Sol	math, cyclic permutation, graph cycles,		5.75	
5	SRM280-D2-1000											See Editorial	math, cyclic permutation or backtrack, p	runi 84	5.75	
5	SPOJ SEQ												math, matrix, matrix pow	89	3	
	SPOJ FIBTWIST												math, matrix, matrix pow, [fib]	89	3	
	TJU 2300												math, matrix, matrix pow	89	3.5	
	UVA 10229											Sol			4	
													math, matrix, matrix pow, fib, or pattern			
	SPOJ SUMSUMS											Sol.	math, matrix, matrix pow, [basic hint in		4.5	
	CF222-D2-E												math, matrix, matrix pow or dp	89	4.5	
<u>C</u>	CF582-D1-B												math, matrix, matrix pow, matrix pow m	ax, (89	5	
	CF621-D2-E											Sol	math, matrix, matrix pow or dp, d&c	89	5.5	
	SPOJ PLHOP											Sol	math, matrix, matrix pow, graph, matrix		6	
L	UVA 11605											Sol	math, matrix, matrix pow, linearity of ex		6	
	LIVEARCHIVE 4332											Sol	math, matrix, matrix pow, reccurance, g		6	
	CF821-D2-E												math, matrix, matrix pow, impl	89	6	
	SPOJ XMAX											Sol	math, matrix, gaussian elimination, gau	s-x 90	5.5	
2	CF1155-D12-E												math, matrix, gaussian elimination	90	5.5	
<u>c</u>													math, matrix, gaussian elimination, bits		6	
<u>Q</u>												Editorial (Coogle Sel)		90		
<u>9</u> <u>9</u> <u>9</u>	CODECHEF TREASL											Editorial (Google Sol)	math, matrix, gaussian elimination	90	6	
2 2 2 1	CODECHEF TREASL TIMUS 1042											C-I				
2 2 2 1 1	CODECHEF TREASL											Sol(no editorial)	math, matrix, gaussian elimination math, matrix, gaussian elimination, dete	90	6	

Problem Name	Problem Code	Status	Submit Count	Reading Time(m)	Thinking Time(m)	Coding Time(m)	Debug Time(m)	Total Time(m)	Problem Level /10	By vourself?	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				
	UVA 10673														3	
	CF100812-GYM-L											Sol	math, extended gcd, totient		5	p1
	UVA 10090 HACKR solve-equation											Sol Test cases are wrong, Case 1 4 1 82; judge ou	math, extended gcd		5 5.5	
	SRM385-D2-1000											rest clases are wrong, clase 1 + 1 02, judge ou	math, diophantine		4.5	
	LightOJ 1306											Sol	math, diophantine, extended gcd		5.5	p2
	CF100506-GYM-C											Sol	math, diophantine, extended gcd or number		6	
	UVA 11768											<u>Sol</u>	math, diophantine, extended gcd, lattice po		6.25	
	LIVEARCHIVE 5990											Sol	math, mod inv		4	
	HACKR game-of-thron												math, mod inv, factorial inv or permutation		5	
	CF327-D2-C HACKR choose-and-c												math, mod inv math, mod inv, combinatorics, binomial coe		5	
	SRM467-D1-500											Sol	math, mod inv, combinatorics, birorniar coe		5	
	LIVEARCHIVE 4506												math, mod inv, dp, combinations		5.5	
	SRM735-D1-500											Sol	math, mod inv, [easier version Timus 1132]	96	6	р3
	CF146-D2-E												math, mod inv, factorial, dp_counting	96	6	p3
	SPOJ DIVEQL											Sol	math, mod inv, gcd		6	p3
	SPOJ KOPC12B											Sol - See CF post	math, mod inv, combinations, pattern		6	p2
	CF816-D2-D CF689-D2-E												math, mod inv, combinatorics math, mod inv, combinatorics, impl		6	p1
	CF785-D2-D											Read this solution after trying	math, mod inv, summations, combinatorics		6.25	p5
	CF521-D1-C											SolToMe	math, mod inv, factorials, combinatorics, [in		6.25	p4
	UVA 11327												math, totient		3	
	SPOJ DCEPCA03												math, totient	97	4.5	
	CF101778-GYM-C											Sol	math, totient		5	p2
	CF1009-D2-D											0.1	math, totient, [cases]		5	
	UVA 11424 UVA 10820											Sol	math, totient, sieve, sums, gcd math, totient		5 5.5	
	UVA 10820 UVA 11426												math, totient		6	р3
	UVA 10990												math, totient		6	Po
	CF114-D2-F												math, totient		6.25	p2
	CF100957-GYM-F												math, totient		6.25	
	TIMUS 1456												math, totient, sieve		6.25	
	LIVEARCHIVE 2116												math, mobius		4	1
	CF900-D2-D											<u>Sol</u>	math, mobius, inclusion-exclusion or dp_co		6	p3
	SPOJ SQFREE											Sol	math, mobius, inclusion-exclusion		6.25	p4
	CF803-D12-F SPOJ SUB_PROB											<u>Sol</u>	math, mobius, inclusion-exclusion string processing, aho_corasick or suffix are		6.25 4	p3
	SRM519-D1-500											<u>555</u>	string processing, ano_corasick		5	
	SRM557-D2-1000												string processing, aho_corasick, dp or kmp		5	
	LIVEARCHIVE 5064											Sol	string processing, aho_corasick		6	
	TIMUS 1269												string processing, aho_corasick		6	
	CODECHEF LYRC												string processing, aho_corasick, dp		6	
	UVA 12244											Sol	string processing, aho_corasick or suffix an		6.25	p2
	SPOJ SUBST1 SPOJ MINMOVE											Sal	string processing, suffix array, lcp, distinct s string processing, suffix array, lcp, smallest		3 4	p3 p1
	SPOJ SUBLEX											Sol Sol	string processing, suffix array		4	рі
	UVA 11107											201	string processing, suffix array, lcp, binary se		5	p5
	SPOJ LPS											Sol	string processing, suffix array, lcp or rolling		5	р3
	SPOJ LONGCS											Sol	string processing, suffix array, lcp, LCS k su	104	5	p2
	<u>CF113-D1-B</u>												string processing, suffix array		5.5	
	CF123-D1-D												string processing, suffix array or suffix auto		5.5	
	LIVEARCHIVE 4477												string processing, suffix array, [solve first U		5.5	
	CF149-D2-E CF129-D2-D												string processing, suffix array or kmp or suf- string processing, suffix array, Kth lexograp		6	p4 p4
	SPOJ PLD												string processing, rolling hash, longest palir		4	p1
	SPOJ ELCS												string processing, rolling hash		4	Ė
	CF1003-D3-F												string processing, rolling hash	105	5	p2
	CF533-D1-E												string processing, rolling hash		5.5	р3
	CF101741-gym-K												string processing, rolling hash		6	р3
	CF101808-gym-B												string processing, rolling hash		6	p3
	HACKER kriti-and-her CF245-D12-H												string processing, rolling hash, mo's algorith string processing, rolling hash, dp		6	p3 p2
	CF1056-D12-E												string processing, rolling hash, math		6	p2
	CF101864-GYM-J											Sol	string processing, rolling hash, two pointer		6	p2
	<u>CF727-D2-E</u>												string processing, rolling hash		6	
	CF985-D12-F											Sol	string processing, rolling hash		6.25	p4
	CF101627-GYM-D											Sol	string processing, rolling hash, greedy, bina		6.25	p3
	SPOJ TWIST											Sol	bbst, treap		5	p2
	SPOJ ADAAPHID SPOJ HEAPULM											Sol	bbst, treap or segment tree bbst, treap or cartesian tree or order-statisti		5	p2
	CF101864-GYM-K											Sol	bbst, treap or cartesian tree or order-statisti		6	р3
	SPOJ CERC07S											Sol	bbst, treap, segment tree, lazy or splay tree		6	р3
	kattis hanoi18.lazylear											Sol	bbst, treaps, impl, offline query answering of		6	р3
	SPOJ GSS6											Sol	bbst, treap or splay tree or avl tree, [solve 0		6	p2
	UVA 12003											Discu	bbst, treap, impl		6	1
	CF38-D12-G											0-1	bbst, treap, binary search		6.25	p3
	SPOJ MEANARR SPOJ DQUERY											<u>Sol</u>	bbst, treap or bit mo's algorithm or segment tree persistence		6.25 4	p2
	CODECHEF IITI15												mo's algorithm or segment tree persistence mo's algorithm, bit, [count inversion]		5	p1
	CF220-D1-B												mo's algorithm		5	F.
	HACKER substrings-c												mo's algorithm		5	
	SPOJ RACETIME											Sol	mo's algorithm or segment tree or sqrt deco		5	
	SPOJ ZQUERY											Sol	mo's algorithm, [strict time/mem], [~=CODE		6.25	
	Timus 1167												dp, dp_d&c_opt or dp		5	-
	CF321-D1-E											0.1	dp, dp_d&c_opt or dp_knuth, [standard proi		6	p2
	SPOJ NKLEAVES											Sol Sol	dp, dp_d&c_opt, [standard], [~UVA 12524,		6	n4
	HACKER sprint5-minir CF834-D2-D											Sol Sol	dp, dp_d&c_opt or dp_convex_hull or dp_ki dp, dp_d&c_opt, segment tree, [Mido: When		6.25 6.25	p4 p4
	TIMUS 1553												graph, hld, lca		5	p4 p2
	SPOJ QTREE3											Sol	graph, hid or segment tree or bfs		5	ř -
	SPOJ QTREE												graph, hld, lca, segment tree or splay tree,		5	
	SPOJ GRASSPLA											Sol	graph, hld, segment tree		5	
	PKU 2763											Sol	graph, hld or lca, bit		5.5	p2
	SPOJ GOT											Sol	graph, hld or lca, segment tree, presistent of	122	6	p2
	CF101856-GYM-E											Sol	graph, centroid-decomposition, primes	123	5	p2

Problem Name	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		D			
	CF321-D1-C												graph, centroid-decomposition, [tutorial prof		5.25	
	CF766-D2-E												graph, centroid-decomposition or dp_trees,	123	5.5	p3
	CF101174-GYM-F											Sol	graph, centroid-decomposition or dsu-on-tre		5.5	р3
	CF914-D12-E												graph, centroid-decomposition, bitmasks or		6	p3
	CF715-D1-C											-	graph, centroid-decomposition, dp, math or		6	
	LIVEARCHIVE 5133											Sol	dp, dp_convex_hull, [needs bbst (e.g. set) r		6	p4
	SPOJ ACQUIRE [1]											Sol	dp, dp_convex_hull, [type 1], [in editorial], [t		6	р3
	CF319-D1-C											Sol	dp, dp_convex_hull or LiChao, [straightforw		6	
	CF1083-D1-E											Sol (not intended)	dp, dp_convex_hull or segment tree, LiCha		6	-
	CODECHEF CYCLRA											Sol	dp, dp_convex_hull, dynamic, [https://github		6.25	р3
	CF311-D1-B											Sol			6.25	
	CF570-D2-D												graph, dsu-on-trees or graph, euler tour, bir graph, dsu-on-trees or trees, dfs, binary sea		4	p1
	CF208-D2-E HACKER the-grass-ty														5	
	CF246-D2-E												•		5	
	SGU 507											Sol	graph, dsu-on-trees, [standard, , [Main a pre		5.5	p2
	CF1009-D12-F											<u>55.</u>			5.75	p2
	CF291-D2-E											Sol	1 1		6.25	p3
	CF103-D1-D											<u>55.</u>			5	ро
	SPOJ FREQ2											Sol			5	
	CF797-D12-E														5.5	p2
	CF342-D2-E												sqrt decomposition, bfs or centroid-decomp		5.75	р3
	CF13-D12-E														6	р3
	HACKR competitive-te											Sol	sqrt decomposition, dsu or segment tree [ht		6	р3
	CF551-D2-E														6	
	CODECHEF DOCSDE											Sol			6.25	р3
	UVA 10304											Use knuth		128	5	p2
	UVA 12836											Use knuth			5.25	i i
	SPOJ BRKSTRNG											Sol			6	р3
	CODECHEF CHEFAC											Find O(NK) Sol		128	6.25	p3
	HACKER special-pairs												dp, dp_sos	134	5	р3
	CF383-D1-E													134	6	р3
	CF165-D2-E													134	6	р3
	HACKER uchiha-broth CF632-D12-E													134	6.25	p4
	CF632-D12-E												math, fft, [practice]	138	6	
	SPOJ POLYMUL												math, fft, [practice]	138	6	
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	Weekly Check List
	Training Secrets of Success Video
Reading	
reading	Read within 3-5 minutes for short text problem. If no, you need to work on your Reading English Skills
	Never suspect later your problem understanding? If happens, you need to improve your comprehension / cases tracing
hinking	
	Ready and in the challenging mood before start solving.
	Striving against the problem for a reasonable time. If no, you need to change your solving spirit. Be a fighter.
	Found a solution; Do verifications: text cases / extra cases / correctness / time & memory
Coding	
Journa	Sketch in your mind the big picture of the code first. Don't rush for coding
	Code within 10 minutes. If more, you have coding skills problem or your understanding for the approach is not complete
	A lot of copy paste? Something wrong. Need a better code organization
	Needed more than 10 minutes to code medium size codes? Why? Identify the issue and solve it
Debugging	
	Which will be faster to catch the mistake? Printing or Debugger
	Don't know how to use a debugger? Learn this skill
	Needed more than 10 minutes to solve bugs? Something is wrong. Why need all this time? How to solve this issue?
Code is ready!	
	Just submit and see if passed? Wrong. Behave as if you are in the real contest. Are you almost sure it will be AC? If yes, submit
	TRAIN offline as if you are in a real contest. This shortens the gap between training and the real contest
Code Failed :(
	Are you nervous / frustrated? Yes => Wrong behavior. Take it easy
	Rush to test cases? Yes => Wrong, revise idea, then code, then trace more samples. Try for 15 minutes or more first
Got it AC	
JOI II AO	Read and Understood editorial solutions?
	Checked 1-3 other AC solutions?
	Tried to write a much shorter version of your code?
	Tried to write a faster coder (better complexity)?
Speed	
	How much time do you need in Div2-A/Div2-B? Target (5, 10) minutes for semiseniors, (3, 6) for seniors
	Not that fast? You need regular speed training on easy problems
Veakly contests	
veakly contests	Do you participate in 1-2 contests per week at least? If no, this is bad. Offline training != Online contests
	You need to train yourself to behave in online contests similar to offline training. This is an important skill.
Sheet stats	
	Recorded them? Yes: read your problem's row. Where do you consume the most of the time? These are your weak skills
	No, I don't record! => How will you know your weak points?!
	Can't record timing as I am mixing thinking with coding? => Wrong behavior. get done with thinking, then move to coding. Don't cycle
raining Time	
raining Time	Is it regular and scheduled? Yes => you will have regular improvements.
	Your plan was to train X hours, Did so? If no, why?
	Without regular and continous training, your mind might not improve well
Fraining with?	

Psychological issues	
	Do you keep comparing yourself with others?
	Do you have negative feelings? Like I am stupidI am hopelessI will never have a comparable level?
	Do you think of your image/appearance if failed in online contests so avoid contests?
	Do you use another account with a weird name to train so that people don't know about your progress/failure?
	Do you wish your friends fail in the contest? or get annoyed with their better performance?
	Do you avoid teaching your friends something or give no support to remain better than them?
	Do you feel bored/frustrated as no/weak community in your college?
	Do you keep training day and night without breaks? No socialization at all?
	Do you hate specific topics and avoid them (probability/geometry)?
	'Should I stop' Dilemma? Keep thinking is it worth vs a waste of time?
	If any of the above questions is YES, you probably have a problem and need to find a solution to it.

Decklere Name	Desklass	Status	Submit	Reading	Thinking	Coding	Debug	Total	Problem	By	0-4	Annonment
Problem Name	Problem	Status	Count	Time(m)	Time(m)	Time(m)	Time(m)	Time(m)	Level /10	yourself?	Category	Any Comments
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	This is your own sheet
								0				Add here other external problems you solve
								0				E.g. what you solve in codeforces contests
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Problem Name	Problem	Status	Submit Count	Reading Time(m)	Thinking Time(m)	Coding Time(m)	Debug Time(m)	Total Time(m)	Problem Level /10	By yourself?	Category	Any Comments
	AC Averages =>	0	0	0	0	0	0	0	0	0	0	
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[1] From a trainee: txt clarification: In this problem FJ can actually REARRANGE the plots and then groups them. * I misunderstood the statement by the word 'successive'