

**Advanced Data Structures and Algorithm Analysis**  
**Assignment 1**  
**Coding Contests Report**

**Name of the Student:** K. Varun

**Roll Number:** 23501A0569

S. No.	Date Of Contest	Name of Contest	Problems Solved	Score Achieved	Contest Rating	Contest Rank
1.	17-07-24	Starters 143 CodeChef	2 out of 7	200 / 700	969	8559
2.	31-07-24	Starters 145 CodeChef	3 out of 7	300 / 800	1104	8313
3.	07-08-24	Starters 146 CodeChef	3 out of 7	300 / 700	1197	6853
4.	14-08-24	Starters 147 CodeChef	2 out of 8	200 / 800	1189	15736
5.	21-08-24	Starters 148 CodeChef	3 out of 8	300 / 800	1238	6834
6.	28-08-24	Starters 149 CodeChef	2 out of 9	200 / 900	1234	15185
7.	04-09-24	Starters 150 CodeChef	3 out of 9	300 / 900	1263	6363
8.	11-09-24	Starters 151 CodeChef	1 out of 6	100 / 600	1249	15903
9.	25-09-24	Starters 153 CodeChef	3 out of 8	300 / 800	1256	11696
10.	02-10-24	Starters 154 CodeChef	3 out of 7	300 / 700	1285	6891
11.	09-10-24	Starters 155 CodeChef	2 out of 7	200 / 700	1276	12275
12.	16-10-24	Starters 156 CodeChef	2 out of 8	200 / 800	1254	28613
13.	20-10-24	GFG Weekly 177 Geeks for Geeks	1 out of 4	10 / 100	N/A	2096
14.	23-10-24	Starters 157 CodeChef	2 out of 8	200 / 800	1255	12358
15.	27-10-24	GFG Weekly 178 Geeks for Geeks	1 out of 4	10 / 100	1485	2033
16.	30-10-24	Starters 158 CodeChef	2 out of 8	200 / 800	1243	12051

17.	03-11-24	GFG Weekly 179 Geeks for Geeks	1 out of 4	10 / 100	1480	2108
18.	06-11-24	Starters 159 CodeChef	3 out of 8	300 / 800	1252	10777

**Total Contests Participated: 18**

**Total Problems Solved: 39**

**Note:** PFA of all the contests proofs below:

## **CODECHEF**

# STARTERS 143

Rated till 5-Stars

17 JUL 2024 | 08:00 PM - 10:00 PM IST  
Contest Duration - 2 Hours

### Scorable Problems for Division 4

🚩 Name	🚩 Code	▼ Successful Submissions	🚩 Accuracy
<a href="#">International Justice Day</a>	✓ JUSTICE	16180	<a href="#">80.15</a>
<a href="#">Maximum Coins</a>	✓ MAXCOIN	10499	<a href="#">47.89</a>
<a href="#">Binary Conversion</a>	CONVERT	1675	<a href="#">14.85</a>
<a href="#">Non-Divisor Array</a>	DIVCOL	1296	<a href="#">17.09</a>
<a href="#">Max Min and Length</a>	MAXMINLEN	9	<a href="#">0.55</a>
<a href="#">Spread of Ratism</a>	RATISTERA	4	<a href="#">1.74</a>
<a href="#">Lex Min Binary String</a>	LEXMINBIN	0	<a href="#">0</a>

### NON SCORABLE PROBLEMS FOR PRACTICE

The following problems are **NOT** part of the contest, and will not be counted towards your rankings and ratings. These are problems from the other Division(s), made available for you to practice. Click [here](#) to know more. They will be considered for plagiarism though.

🚩 Name	🚩 Code	🚩 Successful Submissions	🚩 Accuracy
<a href="#">Split Sort Permutation</a>	SPLITSORT	0	<a href="#">0</a>

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### Important links

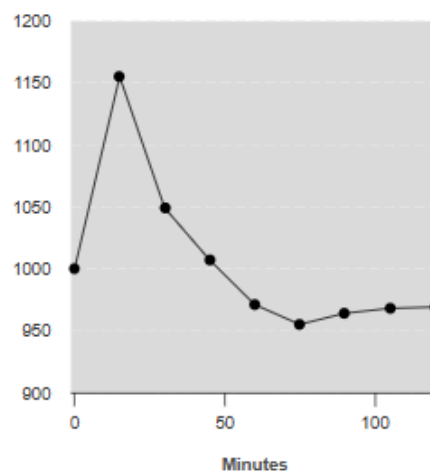
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### Master Data Structures and Algorithms

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### Live Ratings Graph



Snapshot of your live ratings during the contest

### Contest Ranks

Your Rank: 8559  
Score: 200

# STARTERS 145

Rated till 6-Stars

31 JUL 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Name	Code	Successful Submissions	Accuracy
<a href="#">Volume Comparison</a>	CABLE	25756	67.5
<a href="#">Gun Master</a>	GMGM	20416	77.65
<a href="#">Make My Array Equal</a>	MEBA	7955	37.15
<a href="#">Make Bob Win</a>	DLSB	4884	44.34
<a href="#">Square String</a>	SQING	167	8.44
<a href="#">Querified</a>	QUERY1206	3	0.26
<a href="#">Beautiful Array</a>	ARRBEAUT	2	0.34
<a href="#">Token Passing on Tree</a>	TOKTREE	0	0

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Find the smallest array</a>	SMLARR	0	0

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# STARTERS 146

Rated till 5 stars

07 AUG 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Name	Code	Successful Submissions	Accuracy
<a href="#">Olympics 2024</a>	OLYMPICS24	27517	80.06
<a href="#">No Winner</a>	NOWINNER	17876	43.92
<a href="#">Knockout tournament</a>	KNOCKOUT	7137	54.91
<a href="#">Permutation Construction</a>	CREATEP...	5562	44.86
<a href="#">Bouncing Ball</a>	BOUNCE_...	1525	23
<a href="#">Back Front</a>	BACKFRONT	7	0.48
<a href="#">Connect The Chains</a>	CTC	2	0.34

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Binary Strings Yet Again</a>	BINSTRAG...	0	0

ANNOUNCEMENTS

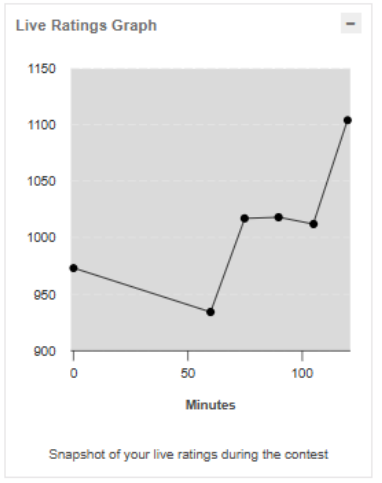
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Contest Ranks

Your Rank: 8313

Score: 300

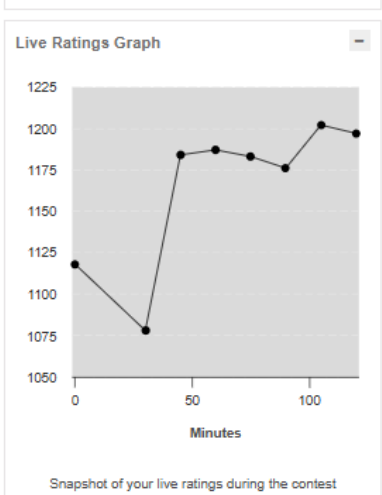
Important links

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Contest Ranks

Your Rank: 6853

Score: 300

# STARTERS 147

Rated till 5 stars

14 AUG  
2024

08:00 PM - 10:00 PM IST  
Contest Duration - 2 Hours



## Scorable Problems for Division 4

🚩 Name	🚩 Code	▼ Successful Submissions	🚩 Accuracy
<a href="#">Gold Coins 101</a>	✓ GOLDCOINS	25533	<a href="#">84.14</a>
<a href="#">Independence Day 101</a>	✓ INDEPEND...	20055	<a href="#">48.36</a>
<a href="#">Truth Teller And Liars 101</a>	TRUTHLIE	11623	<a href="#">30.27</a>
<a href="#">Non-Primes 101</a>	NONPRIM...	1839	<a href="#">9.41</a>
<a href="#">Shortest Distances 101</a>	DATA101	33	<a href="#">0.83</a>
<a href="#">K Subsequence 101</a>	REMK	7	<a href="#">0.74</a>
<a href="#">Counting Triangles 101</a>	CNTTRIAN...	7	<a href="#">0.96</a>
<a href="#">Counting is Fun 101</a>	CNTSTILL...	3	<a href="#">0.48</a>

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## Contest Ranks

Your Rank: 15736  
Score: 200

[Go to Contest Ranks](#)

# STARTERS 148

Rated till 6 stars

21 AUG  
2024

08:00 PM - 10:00 PM IST  
Contest Duration - 2 Hours



## Scorable Problems for Division 4

🚩 Name	🚩 Code	▼ Successful Submissions	🚩 Accuracy
<a href="#">Clearance Sale</a>	✓ CLEARANCE	29849	<a href="#">83.88</a>
<a href="#">Let Me Eat Cake!</a>	✓ CAKEHALF	24541	<a href="#">74.08</a>
<a href="#">FightBots</a>	✓ FIGBOT	7783	<a href="#">37.27</a>
<a href="#">The Undisappearance</a>	ALL3	25	<a href="#">0.59</a>
<a href="#">Double Trouble</a>	JUSTTWO	21	<a href="#">0.25</a>
<a href="#">Beautiful Flip</a>	KBFLIP	10	<a href="#">0.63</a>
<a href="#">ZigZag Tree Sequences ...</a>	ZIGZAGTR...	3	<a href="#">0.68</a>
<a href="#">Xor Minimization (Easy)</a>	XIN	0	<a href="#">0</a>

## NON SCORABLE PROBLEMS FOR PRACTICE

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🚩 Name	🚩 Code	🚩 Successful Submissions	🚩 Accuracy
<a href="#">Xor Minimization (Hard)</a>	XIN2	0	<a href="#">0</a>
<a href="#">ZigZag Tree Sequences ...</a>	ZIGZAGTR...	0	<a href="#">0</a>

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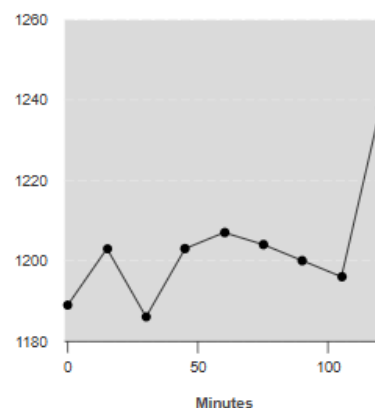
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## Live Ratings Graph



Snapshot of your live ratings during the contest

## Contest Ranks

Your Rank: 6834  
Score: 300

# STARTERS 149

Rated till 5 stars

28 AUG 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Scorable Problems for Division 4

Name		Code	Successful Submissions	Accuracy
<a href="#">Approximate Answer</a>	✓	P1149	30645	<a href="#">66.57</a>
<a href="#">Magical World</a>	✓	P2149	17468	<a href="#">38.06</a>
<a href="#">Easy Subarray Sum</a>		P3149	9513	<a href="#">33.01</a>
<a href="#">Maximise Sum</a>	✗	P4149	6330	<a href="#">30.14</a>
<a href="#">Chef Loves Beautiful Stri...</a>		ZXC	475	<a href="#">20.87</a>
<a href="#">Kill Monsters (Easy Versi...</a>		CXZ	28	<a href="#">1.13</a>
<a href="#">Kill Monsters (Hard Versi...</a>		MMA	17	<a href="#">5.73</a>
<a href="#">Chef Loves Beautiful Stri...</a>		P5149	2	<a href="#">0.68</a>
<a href="#">Construct Degree</a>		P7149	0	<a href="#">0</a>

NON SCORABLE PROBLEMS FOR PRACTICE

The following problems are **NOT** part of the contest, and will not be counted towards your rankings and ratings. These are problems from the other Division(s), made available for you to practice. Click [here](#) to know more. They will be considered for plagiarism though.

Name	Code	Successful Submissions	Accuracy
<a href="#">Magician In War</a>	P149	0	<a href="#">0</a>

# STARTERS 150

Rated till 6 stars

04 SEP 2024

08:00 PM - 10:30 PM IST

Contest Duration - 2.5 Hours

Scorable Problems for Division 4

Name		Code	Successful Submissions	Accuracy
<a href="#">IOI 2024</a>	✓	IOI2024	23556	<a href="#">77.12</a>
<a href="#">Ratio By 2</a>	✓	RATIO2	12140	<a href="#">48.47</a>
<a href="#">Find Multiset State</a>	✓	ARRAYSTA...	9699	<a href="#">46.83</a>
<a href="#">Equal Pairs (Easy)</a>	✗	MAXEQEA...	4476	<a href="#">38.19</a>
<a href="#">Equal Pairs (Hard)</a>		MAXEQUAL	506	<a href="#">11.77</a>
<a href="#">Min Ops (Easy)</a>		MINOPS1	20	<a href="#">3.04</a>
<a href="#">Replacing Game</a>		REPLACE...	12	<a href="#">1.1</a>
<a href="#">Min Ops (Hard)</a>		MINOPSII	8	<a href="#">5.03</a>
<a href="#">Tree Requirements (Easy)</a>		TREEREQ1	2	<a href="#">0.58</a>

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Not Equal On Tree</a>	NOTEQUA...	0	<a href="#">0</a>

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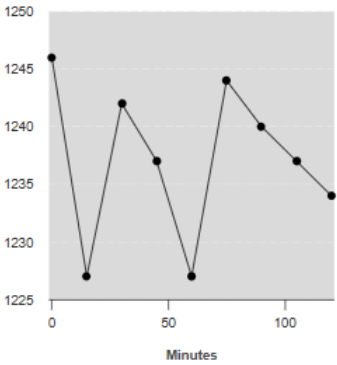
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Live Ratings Graph



Snapshot of your live ratings during the contest

Contest Ranks

Your Rank: 15185  
Score: 200

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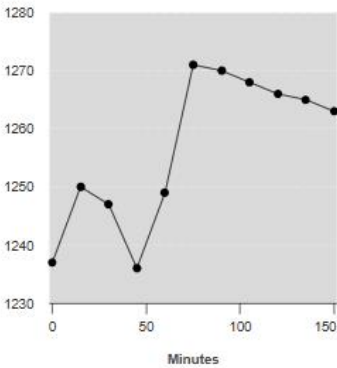
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Live Ratings Graph



Snapshot of your live ratings during the contest

Contest Ranks

Your Rank: 6363  
Score: 300

# STARTERS 151

Rated till 5 stars

11 SEP 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Name	Code	Successful Submissions	Accuracy
<a href="#">Weightlifting</a>	WEIGHTLIFT	29478	83.76
<a href="#">International Gym Day</a>	GYMDAY	10813	19.7
<a href="#">Convert string</a>	SAMESTR	5668	43.88
<a href="#">Ball Game</a>	BALL_GAME	577	18.13
<a href="#">Shooting (Easy)</a>	SHOOT0	147	2.3
<a href="#">Sequence Search</a>	SEQSEAR...	48	1.49

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">RGB Grid (Easy)</a>	RGBGRID_...	0	0
<a href="#">Shooting (Hard)</a>	SHOOT	0	0
<a href="#">RGB Grid (Medium)</a>	RGBGRID_...	0	0
<a href="#">RGB Grid (Hard)</a>	RGBGRID	0	0

# STARTERS 153

Rated till 5 stars

25 SEP 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Name	Code	Successful Submissions	Accuracy
<a href="#">AI is Coming</a>	AICOM	34148	84.47
<a href="#">Make Arithmetic Progres...</a>	AP	28040	61.03
<a href="#">Butterfly</a>	BFLY	24260	69.11
<a href="#">Another Game</a>	KARR	6690	25.96
<a href="#">Colorful Tree (Easy Versi...</a>	CTRE	2897	50.61
<a href="#">Xometry (Easy Version)</a>	XSQR	592	14.41
<a href="#">Xometry (Hard Version)</a>	XSQRH	4	0.69
<a href="#">Colorful Tree (Hard Versi...</a>	CTRH	0	0

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Paired Tree</a>	PTRE	0	0

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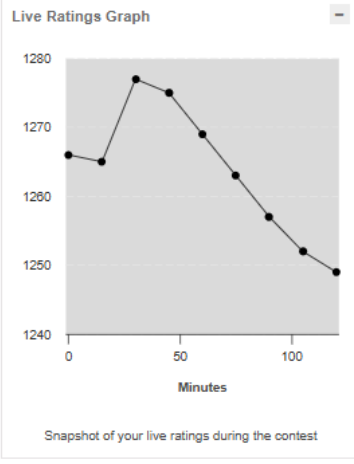
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Contest Ranks

Your Rank: 15903

Score: 100

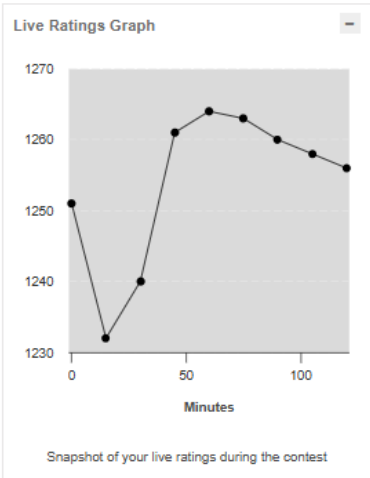
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Contest Ranks

Your Rank: 11696

Score: 300



STARTERS 154

Rated till 6 stars

02 OCT 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Name	Code	Successful Submissions	Accuracy
<a href="#">Coldplay Tickets</a>	COLDPLA...	27551	72.89
<a href="#">Calorie Limit</a>	CALLIM	22426	68.77
<a href="#">Add 1 or 2 Game</a>	ADD12GAME	14855	31.72
<a href="#">GCD and XOR</a>	GCDXOR	1806	16.33
<a href="#">Triangle Count (Easy)</a>	TRICOUNT1	191	3.3
<a href="#">Count Winning Subarrays</a>	COUNTWI...	24	0.43
<a href="#">Tree Cut Xor</a>	TREECUT...	11	0.66

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Triangle Count (Hard)</a>	TRICOUNT2	0	0
<a href="#">Min Max Paths</a>	MINMAXPA...	1	0.75

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STARTERS 155

Rated till 5 stars

09 OCT 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Name	Code	Successful Submissions	Accuracy
<a href="#">Chef and Parole</a>	CHEFPAR...	25951	74.31
<a href="#">Rectangled</a>	RCTGLD	20391	61.08
<a href="#">GCD to 1 (Easy)</a>	GCD_1	8256	29.18
<a href="#">GCD to 1 (Hard)</a>	MINGCD_1	2119	17.19
<a href="#">Replace With First</a>	STRFIRST...	174	2.15
<a href="#">Prefix Suffix Min Max</a>	PREFSUM...	115	4.94
<a href="#">Array Concatanation</a>	ARRCONC...	17	1.14

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Replace With First Literally</a>	FIRSTSTR...	0	0
<a href="#">Numismatics</a>	NUMMAT	0	0

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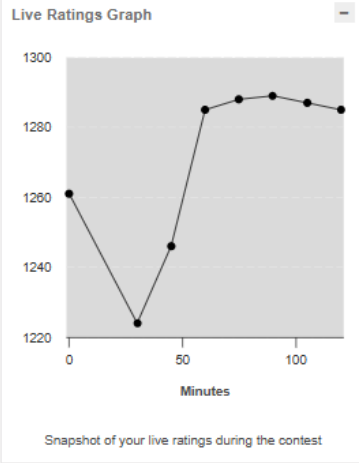
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Contest Ranks

Your Rank: 6891

Score: 300

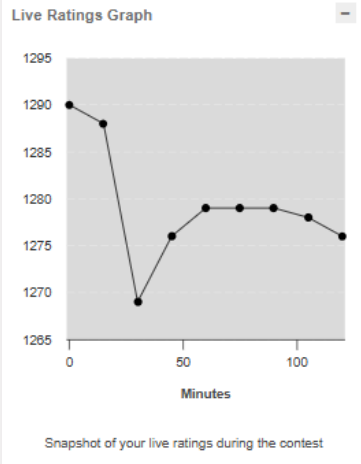
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Contest Ranks

Your Rank: 12275

Score: 200

# STARTERS 156

Rated till 6 stars

16 OCT 2024 | 08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Scorable Problems for Division 4

Name	Code	Successful Submissions	Accuracy
<a href="#">Sweets Shop</a>	SWEETSH...	33027	<a href="#">78.47</a>
<a href="#">Long Queue</a>	LONGQUE...	26689	<a href="#">74.29</a>
<a href="#">Even Numbers Hate</a>	EVENHATE	12179	<a href="#">39.85</a>
<a href="#">Partition Score</a>	PARTSCORE	5596	<a href="#">40.44</a>
<a href="#">Count Triplets</a>	COUNTTRIP	134	<a href="#">2.79</a>
<a href="#">Balance Difficulties</a>	BALDIFF	124	<a href="#">6.93</a>
<a href="#">Interval Cliques</a>	INTCLIQUE	44	<a href="#">4.67</a>
<a href="#">Keep Magnets Separated</a>	MAGNET	9	<a href="#">0.88</a>

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Expected Value Problem</a>	EVVAL	1	<a href="#">0.55</a>

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# STARTERS 157

Rated till 5 stars

23 OCT 2024 | 08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

Scorable Problems for Division 4

Name	Code	Successful Submissions	Accuracy
<a href="#">Glass Prices</a>	GLPR	27380	<a href="#">63.43</a>
<a href="#">Non-matching Name</a>	ABNOMAT	15855	<a href="#">55.96</a>
<a href="#">Not-too-far Replacement</a>	TWOCLOSE	4585	<a href="#">28.29</a>
<a href="#">Small, Smaller, Smallest</a>	BSHORT	2763	<a href="#">22.78</a>
<a href="#">Normal is Good (Easy)</a>	NORMALEZ	871	<a href="#">15.26</a>
<a href="#">Unmedian</a>	MEDIANT	106	<a href="#">7.71</a>
<a href="#">Normal is Good</a>	NORMAL	18	<a href="#">0.94</a>
<a href="#">MEXtreme Divisibility</a>	ONEDIF	2	<a href="#">0.16</a>

NON SCORABLE PROBLEMS FOR PRACTICE

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Name	Code	Successful Submissions	Accuracy
<a href="#">Saturated Subarrays</a>	SATSUB	0	<a href="#">0</a>

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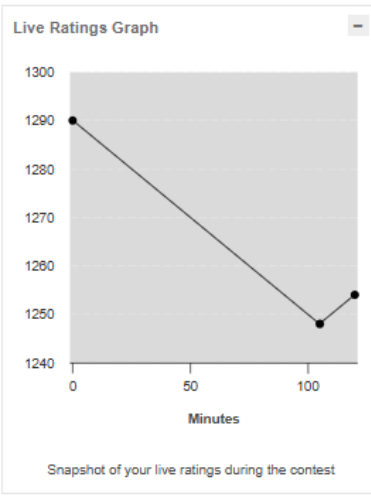
Important links

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Contest Ranks

Your Rank: 26753

Score: 200

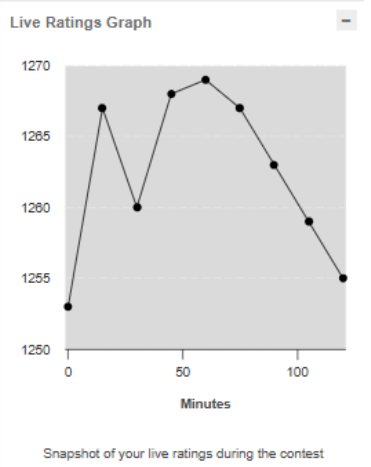
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Contest Ranks

Your Rank: 8183

Score: 200



# STARTERS 158

Rated till 6 stars

30 OCT 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

## Scorable Problems for Division 4

🚩 Name	🚩 Code	▼ Successful Submissions	🚩 Accuracy
<a href="#">Diwali Discount</a>	✓ DIWALIDISC	23942	<a href="#">84.25</a>
<a href="#">Even vs Odd Divisors</a>	✓ EVENODD...	20104	<a href="#">75.86</a>
<a href="#">Largest Subsequence</a>	LARGESUB	5252	<a href="#">33</a>
<a href="#">XOR Smaller</a>	✗ XORSMALL	3131	<a href="#">36.57</a>
<a href="#">Multiply 2 to Minimize</a>	MUL2	656	<a href="#">15.95</a>
<a href="#">Buying Game</a>	BUYGAME	332	<a href="#">9.63</a>
<a href="#">Make a Tree</a>	MAKETREE	4	<a href="#">0.6</a>
<a href="#">Index Compression (Easy)</a>	INDEXCOMP	2	<a href="#">0.44</a>

## NON SCORABLE PROBLEMS FOR PRACTICE

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🚩 Name	🚩 Code	🚩 Successful Submissions	🚩 Accuracy
<a href="#">Global Warming</a>	GLOBALW...	0	<a href="#">0</a>
<a href="#">Index Compression (Hard)</a>	INDEXCO...	0	<a href="#">0</a>

# STARTERS 159

Rated till 5 stars

06 NOV 2024

08:00 PM - 10:00 PM IST

Contest Duration - 2 Hours

## Scorable Problems for Division 4

🚩 Name	🚩 Code	▼ Successful Submissions	🚩 Accuracy
<a href="#">Icecream and Cone</a>	✓ ICECONE	32110	<a href="#">80</a>
<a href="#">Card Game</a>	✓ CARDGAM...	26811	<a href="#">65.73</a>
<a href="#">Elections</a>	✓ USELEC	13268	<a href="#">45.03</a>
<a href="#">Random Nim</a>	RANDOM_...	5093	<a href="#">48.69</a>
<a href="#">Super Hero</a>	SUPER_H...	761	<a href="#">7.62</a>
<a href="#">Chess Colouring</a>	CHESSCO...	428	<a href="#">10.72</a>
<a href="#">Glass Bridge (Easy)</a>	SQUIDGA...	64	<a href="#">6.44</a>
<a href="#">Crafty Coloring (Easy)</a>	CRCOLEZ	60	<a href="#">6.3</a>

## NON SCORABLE PROBLEMS FOR PRACTICE

The following problems are **NOT** part of the contest, and will not be counted towards your rankings and ratings. These are problems from the other Division(s), made available for you to practice. Click [here](#) to know more. They will be considered for plagiarism though.

🚩 Name	🚩 Code	🚩 Successful Submissions	🚩 Accuracy
<a href="#">Crafty Coloring (Hard)</a>	CRCOL	6	<a href="#">4.08</a>
<a href="#">Glass Bridge (Hard)</a>	SQUIDGA...	6	<a href="#">8.54</a>

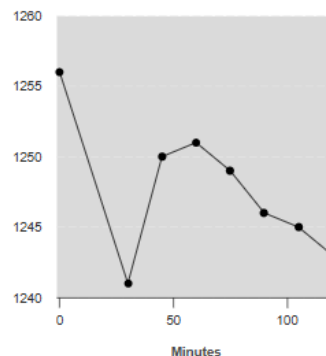
## Important links

[Contest Introduction](#)  
[Textual Problem Solutions](#)

## Master Data Structures and Algorithms

Start Roadmap >

## Live Ratings Graph



Snapshot of your live ratings during the contest

## Contest Ranks

Your Rank: 11184  
 Score: 200

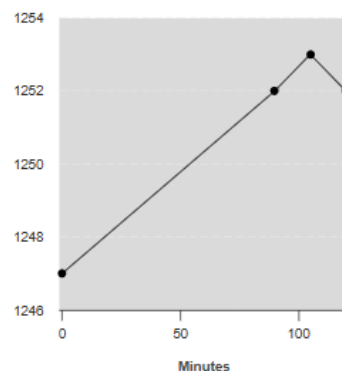
## Important links

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## Live Ratings Graph



Snapshot of your live ratings during the contest

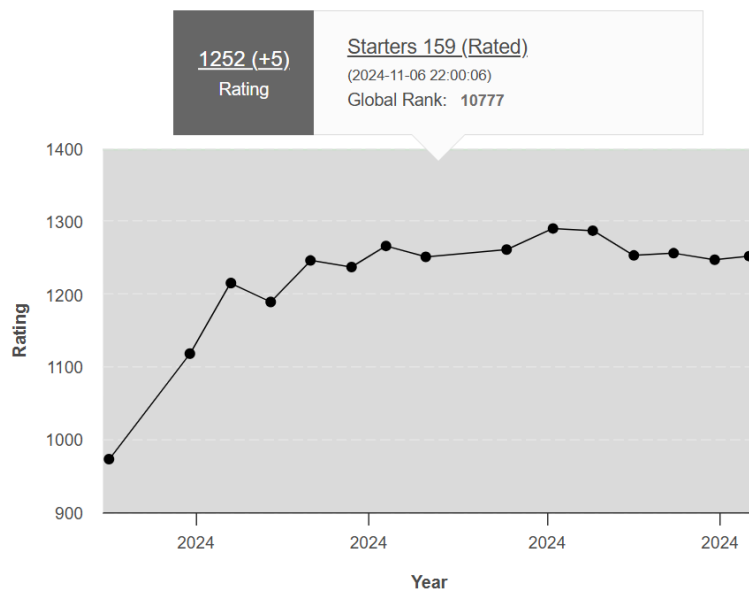
## Contest Ranks

Your Rank: 10777  
 Score: 300

## CodeChef Overall Rating Graph

Rating Graph

No. of Contests Participated: 15



## CodeChef Profile

Username: varunkaza20

Highest Rating: 1290

Global Rank: 74903

Country Rank: 69657

[Profile Link](#)

## GEEKS FOR GEEKS

### GFG Weekly 177

**Varun Kaza**  
@varunkaza20

</>

10

CODING  
SCORE

👤

2096

RANK

Score

Your Score  
**10.00 Points**  
30 points Lower than  
Average

### GFG Weekly 178

**Varun Kaza**  
@varunkaza20

</>

10

CODING  
SCORE

👤

2033

RANK

Score

Your Score  
**10.00 Points**  
14 points Lower than  
Average

### GFG Weekly 179

**Varun Kaza**  
@varunkaza20

</>

10

CODING  
SCORE

👤

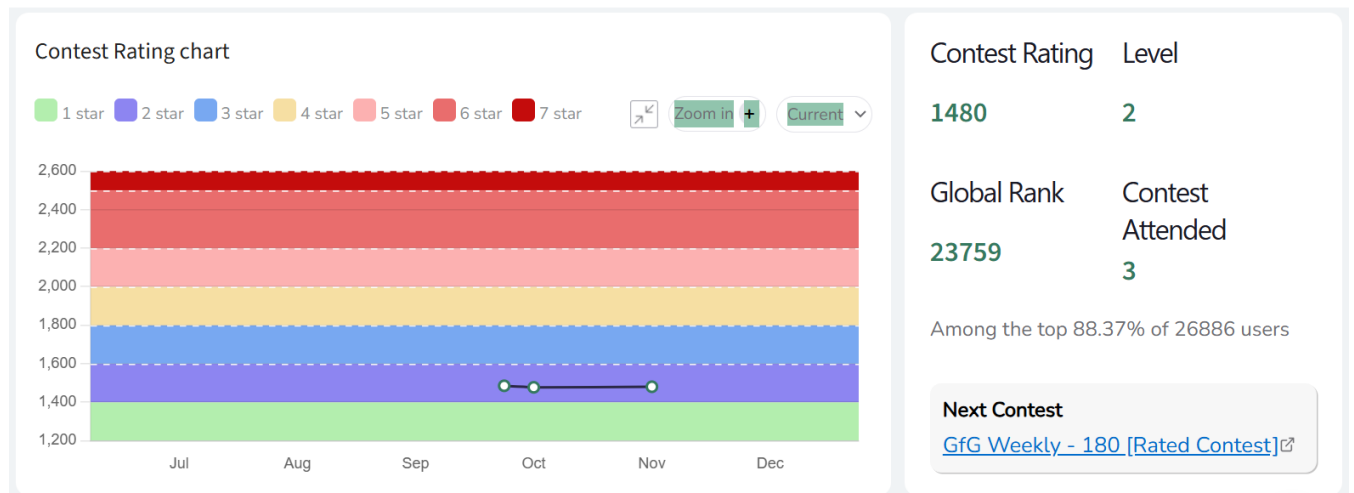
2108

RANK

Score

Your Score  
**10.00 Points**  
8 points Lower than  
Average

## Geeks for Geeks Contest Rating Graph



## Geeks for Geeks Profile

**Username:** varunkaza20

**Institute Rank:** 356

**Problems Solved:** 20 (GFG Practice)

[Profile Link](#)