

Algorithm Problem Solutions

This is the README.md from github project <https://github.com/lzwjava/algorithm-solutions>.

Algorithm Problem Solutions

Problem solutions of some algorithm problems from online judge platforms.

platform	problems solved
UVa	568
Codeforces	419
LeetCode	20
Hacker Rank	20(SQL)

language	lines of code
Java	70851
C++	3214
Python	1193
SQL	101

This repository contains solutions to various algorithm problems from platforms such as Codeforces, HackerRank, LeetCode, Lintcode, Nowcoder, and UVa. Each solution is organized by problem number and includes the source code, input files, and occasionally, additional documentation.

Repository Structure

- README.md: This file.
- codeforces/: Contains solutions to Codeforces problems.
- hacker_rank/: Contains solutions to HackerRank SQL problems.
- leetcode/: Contains solutions to LeetCode problems.
- lintcode/: Contains solutions to Lintcode problems.
- nowcoder/: Contains solutions to Nowcoder problems.
- uva/: Contains solutions to UVa problems.

Codeforces

Each subdirectory within the `codeforces` directory is named after a problem number and includes the following:

- `1.in`: Input file for the problem.
- `src/Main.java`: Java source code file containing the solution to the problem.

HackerRank

The `hacker_rank` directory contains SQL files for various problems. Each file is named after the problem it solves.

LeetCode

The `leetcode` directory contains Python scripts for different problems. The files are named after the problems they solve, such as `two_sum.py` or `valid_parentheses.py`.

Lintcode

Each subdirectory within the `lintcode` directory is named after a problem number and includes the following:

- `src/com/lintcode/Main.java`: Main class file for the solution.
- `src/com/lintcode/Solution.java`: Solution class file for the problem.
- `src/com/lintcode/`: Additional class files as required by the problem.

Nowcoder

Each subdirectory within the `nowcoder` directory is named after a problem and includes the following:

- `Solution.java`: Solution class file for the problem.
- `Test.java`: Test class file for the problem.
- `TreeNode.java`: (If applicable) `TreeNode` class file for problems involving tree structures.

UVa

Solved: 568, Submissions: 1776

Q1	Q2	Q3
100: The 3n + 1 Problem	101: The Blocks Problem	102: Ecological Bin Packing

Q1	Q2	Q3
103: Stacking Boxes	104: Arbitrage	105: The Skyline Problem
106: Fermat's Last Theorem	107: The Cat in the Hat	108: Maximum Sum
110: Meta-Loopless Sorts	111: History Grading	112: Tree Summing
113: Power of Cryptography	116: Unidirectional TSP	118: Mutant Flatworld Explorers
119: Greedy Gift Givers	120: Stacks of Flapjacks	122: Trees on the Level
123: Searching Quickly	124: Following Orders	127: "Accordian" Patience
128: Software CRC	129: Krypton Factor	131: The Domino Effect
133: The Dole Queue	136: Ugly Numbers	138: Street Numbers
140: Bandwidth	146: ID Codes	147: Dollars
151: Power Crisis	152: Tree's a Crowd	156: Ananagrams
160: Factors and Factorials	167: The Sultan's Successors	185: Roman Numerals
190: Circle Through Three Points	193: Graph Coloring	195: Anagram
196: Spreadsheet	197: Orbiting Satellites	200: Rare Order
201: Squares	202: Repeating Decimals	208: Firetruck
210: Determining Periods	211: The Domino Effect	213: Message Decoding
216: Getting in Line	221: Partitioning Polygon	225: Golomb Rulers
227: Puzzle	230: Borrowers	231: Testing the CATCHER
247: Calling Circles	253: Cube painting	256: Quirksome Squares
260: Il Gioco dell'X	264: Count on Cantor	272: TEX Quotes
278: Chess	280: Vertex	291: The House Of Santa Claus
294: Divisors	297: Quadtrees	299: Train Swapping
301: Transportation	305: Joseph	307: Sticks
315: Network	317: Power Transmission	324: Factorial Frequencies
327: Evaluating Simple C Expressions	331: Mapping the Swaps	336: A Node Too Far
340: Master-Mind Hints	343: What Base Is This?	344: Roman Digititis
348: Optimal Array Multiplication Sequence	350: Pseudo-Random Numbers	352: The Seasonal War
353: Pesky Palindromes	357: Let Me Count The Ways	369: Combinations
371: Ackermann Functions	374: Big Mod	375: Inscribed Circles and Isosceles Triangles
378: Intersecting Lines	382: Perfection	386: Perfect Cubes
387: Repeated Substitution with Sed	389: Basically Speaking	392: Polynomial Showdown
400: Unix ls	401: Palindromes	406: Prime Cuts
408: Uniform Generator	409: Excuses, Excuses!	412: Pi
414: Machined Surfaces	417: Word Index	424: Integer Inquiry

Q1	Q2	Q3
429: Word Transformation	437: The Tower of Babylon	438: The Circumference of the Circle
439: Knight Moves	440: Eeny Meeny Moo	441: Lotto
442: Matrix Chain Multiplication	443: Humble Numbers	444: Encoder and Decoder
445: Marvelous Mazes	446: Kibbles n' Bitsn'Bits 'n'Bits	455: Periodic Strings
457: Linear Cellular Automata	458: The Decoder	459: Graph Connectivity
465: Overflow	469: Wetlands of Florida	476: Points in Figures: Rectangles
477: Points in Figures: Rectangles and Circles	478: Points in Figures: Rectangles, Circles, Triangles	481: What Goes Up
482: Permutation Arrays	483: Word Scramble	484: The Department of Redundancy Department
488: Triangle Wave	489: Hangman Judge	490: Rotating Sentences
492: Pig-Latin	494: Kindergarten Counting Game	495: Fibonacci Freeze
496: Simply Subsets	497: Strategic Defense Initiative	499: What's The Frequency, Kenneth?
507: Jill Rides Again	509: Just the Facts	512: Taiwan Railway
514: Rails	524: Prime Ring Problem	530: Binomial Showdown
531: Compromise	532: Dungeon Master	534: Frogger
536: Tree Recovery	537: Railroads	539: The Settlers of Catan
540: Team Queue	541: Error Correction	543: Goldbach's Conjecture
544: Heavy Cargo	548: Tree	550: Multiplying by Rotation
558: Wormholes	562: Dividing coins	567: Risk
568: Just the Facts	572: Oil Deposits	573: The Snail
574: Sum It Up	575: Skew Binary	576: Haiku Review
579: Clock Hands	583: Prime Factors	591: Box of Bricks
594: One Little, Two Little, Three Little Endians	612: DNA Sorting	621: Secret Research
623: 500!	624: CD	637: Booklet Printing
639: Don't Get Rooked	640: Self Numbers	644: Immediate Decodability
657: The die is cast	661: Blowing Fuses	673: Parentheses Balance
674: Coin Change	679: Dropping Balls	686: Goldbach's Conjecture (II)
694: The Collatz Sequence	696: How Many Knights	699: The Falling Leaves
705: Slash Maze	706: LC-Display	712: S-Trees
713: Adding Reversed Numbers	714: Copying Books	725: Division
727: Equation	729: The Hamming Distance Problem	748: Exponentiation
750: 8 Queens Chess Problem	755: 487-3279	784: Maze Exploration

Q1	Q2	Q3
793: Network Connections	796: Critical Links	815: Flooded!
818: Job Matching	820: Internet Bandwidth	821: Page Hopping
834: Continued Fractions	836: Largest Submatrix	839: Not so Mobile
846: Steps	847: A Multiplication Game	900: Brick Wall Patterns
913: Joana and the Odd Numbers	924: Spreading The News	929: Number Maze
948: Fibonaccimal Base	993: Product of digits	1124: Celebrity jeopardy
1149: Dangerous Dive	1152: 4 Values whose Sum is 0	1203: Argus
1225: Digit Counting	1230: MODEX	1237: Expert Enough?
1260: Sales	1339: Ancient Cipher	1368: DNA Consensus String
1374: Power Transmission	1451: Ghostbusters 2	1471: Dangerous Dive
1583: Digital Roots	1584: Mathematics	1585: Score
1586: Molar Mass	1587: Box	1588: War
1589: Partitioning	1590: Elevator	1592: Transmission
1593: Pipes	1594: Diamond	1595: One Liner
1604: Jumping Champion	1605: Fibonacci Sum	1606: Candy
1607: Kaprekar Numbers	1608: Random Walk	1609: Look-and-say sequence
10000: Longest Paths	10003: Cutting Sticks	10004: Bicoloring
10006: Carmichael Numbers	10008: What's Cryptanalysis?	10010: Where's Waldorf?
10012: How Big Is It?	10013: Super long sums	10014: Simple Base Conversion
10018: Reverse and Add	10019: Funny Encryption Method	10025: The Game of MasterMind
10026: Shoemaker's Problem	10033: Billiard	10034: Freckles
10035: Primary Arithmetic	10036: Divisibility	10038: Jolly Jumpers
10041: Vito's Family	10042: Smith Numbers	10047: The Monocycle
10048: Audiophobia	10050: Hartals	10054: The Necklace
10055: Hashmat the Brave Warrior	10056: What is the Probability?	10061: How to solve the cryptarithm?
10062: Tell me the frequencies!	10066: The Twin Towers	10067: Playing with Wheels
10070: Leap Year or Not Leap Year and ...	10071: Back to High School Physics	10074: Take the Land
10077: The Stern-Brocot Number System	10079: Pizza Cutting	10082: WERTYU
10098: Generating Fast	10099: The Tourist Guide	10101: Bangla Numbers
10102: The path in the colored field	10104: Euclid Problem	10105: Polynomial Coefficients
10106: Product	10107: What is the Median?	10110: Light, more light
10112: Myacron Lifetime Achievement Award	10114: Loansome Car Buyer	10115: Automatic Editing
10116: Robot Motion	10123: Snowball Fight!	10125: Sumsets

Q1	Q2	Q3
10127: On a Diet	10129: Play on Words	10130: SuperSale
10131: Is Bigger Smarter?	10137: The Trip	10139: Factovisors
10140: Prime Distance	10141: Request for Proposal	10152: ShellSort
10160: Servicing Stations	10161: Ant on a Chessboard	10167: Birthday Cake
10168: Summation of Four Primes	10170: The Hotel with Infinite Rooms	10177: Magic Square Palindromes
10179: Irreducible Basic Fractions	10183: How many Fibs?	10189: Minesweeper
10190: Divide, But Not Quite Conquer!	10191: Longest Nap	10192: Vacation
10193: All You Need Is Love	10194: Football (aka Soccer)	10195: The Knights Of The Round Table
10198: Counting	10199: Tourist Guide	10205: Stack 'em Up
10209: Is This Integration?	10219: Find the ways!	10220: I Love Big Numbers!
10221: Two-Three Move	10222: Decode the Message	10226: Hardwood Species
10229: Modular Fibonacci	10235: Simply Emirp	10242: Fourth Point !!
10245: The Closest Pair Problem	10250: The Other Two Trees	10252: Common Permutation
10258: Contest Scoreboard	10260: Soundex	10267: Graphical Editor
10276: Hanoi Tower Troubles Again!	10281: Average Speed	10282: Babelfish
10285: Longest Run on a Snowboard	10286: Trouble with a Pentagon	10295: Hay Points
10298: Power Strings	10299: Relatives	10300: Ecological Premium
10302: Summation of Polynomials	10305: Ordering Tasks	10310: Dog and Gopher
10323: Factorial! You Must be Kidding!!!	10324: Zeros and Ones	10327: Flip Sort
10334: Ray Through Glasses	10336: Rank the Languages	10338: Mischievous Children
10340: All in All	10341: Solve It	10344: 23 out of 5
10346: Peter's Smokes	10347: Medians	10361: Automatic Poetry
10369: Arctic Network	10370: Above Average	10387: Billiard Balls
10391: Compound Words	10392: Factoring Large Numbers	10394: Twin Primes
10397: Connect the Campus	10405: Longest Common Subsequence	10409: Die Game
10420: List of Conquests	10424: Love Calculator	10432: Warehouse
10450: World Cup Noise	10452: Marcus	10465: Homer Simpson
10469: To Carry or not to Carry	10473: Climbing Trees	10474: The Candyman Can
10487: Closest Sums	10494: If We Were a Child Again	10496: Collecting Beepers
10499: Big Big Real Numbers	10515: Power Sum	10523: Very Easy !!!

Q1	Q2	Q3
10530: Guessing Game	10533: Digit Primes	10534: Wavio Sequence
10550: Combination Lock	10557: XYZZY	10562: Undraw the Trees
10579: Fibonacci Numbers	10583: Ubiquitous Religions	10591: Happy Numbers
10596: Deep Down Below	10600: ACM Contest and Blackout	10603: The Experimental Library
10608: Friends	10611: The Playboy Chimp	10616: Divisible Group Sums
10653: Bombs! NO they are Mines!!	10656: Maximum Sum (II)	10664: Luggage
10673: Play with Floor and Ceil	10679: I Love Strings!!	10684: The jackpot
10696: f91	10699: Count the factors	10703: Free spots
10719: Quirky Quantifiers	10763: Foreign Exchange	10773: Back to Intermediate Math
10783: Odd Sum	10784: Diagonal	10785: Speed limit
10789: Primo Words	10790: How many points of intersection?	10810: Ultra-QuickSort
10812: Beat the Spread!	10815: Andy's First Dictionary	10878: Decode the tape
10879: Maximum Sum (II)	10905: Children's Game	10911: Forming Quiz Teams
10916: Factstone Benchmark	10921: Find the Telephone	10922: 2520
10924: Simple Minded Hashing	10929: You can say 11	10931: Parity
10935: Throwing cards away I	10940: Throwing cards away II	10943: How do you add?
10945: Mother bear	10948: The primary problem	10954: Add All
10963: The Swallowing Ground	10970: Big Chocolate	10976: Fractions Again?!
10986: Sending email	11000: Bee	11044: Searching for Nessy
11054: Wine trading in Gergovia	11057: Exact Sum	11059: Maximum Product
11060: Beverages	11085: Back to the 8-Queens	11093: Just Finish it up
11094: Continents	11111: Generalized Matrioshkas	11134: Fabled Rooks
11137: Triple Fat Ladies	11150: Cola	11151: Longest Palindrome
11152: Colourful Flowers	11172: Relational Operator	11185: Ternary
11192: No Problem!	11205: The broken pedometer	11212: Editing a Book
11214: Aladdin and the Flying Carpet	11219: How Old Are You?	11231: Black and white painting
11234: Expressions	11235: Frequent Values	11244: Counting Stars
11286: Conformity	11292: Dragon of Loowater	11332: Summing Digits
11340: Newspaper	11349: Symmetric Matrix	11362: Phone List
11364: Parking	11369: Shopaholic	11388: GCD LCM
11389: The Bus Driver Problem	11417: GCD	11428: Cubes
11450: Wedding Shopping	11455: Behold my quadrangle	11461: Square Numbers

Q1	Q2	Q3
11462: Age Sort	11479: Is this the easiest problem?	11494: Queen
11498: Division of Nlogonia	11503: Virtual Friends	11504: Dominos
11530: SMS Typing	11541: Decoding	11547: Automatic Answer
11559: Event Planning	11565: Simple Equations	11572: Unique Snowflakes
11577: Letter Frequency	11586: Train Tracks	11608: No Problem!
11614: Etruscan Warriors Never Play Chess	11624: Fire!	11631: Dark roads
11636: Hello World!	11650: Mirror Clock	11661: Airport
11677: Alarm Clock	11679: Sub-prime	11689: Soda Surpler
11713: Abstract Names	11715: Car	11716: Digital Fortress
11723: Numbering Roads	11727: Cost Cutting	11729: Commando War
11734: Big Number of Teams will Solve This	11743: Credit Check	11764: Jumping Mario
11777: Automate the Grades	11799: Horror Dash	11805: Bafana Bafana
11809: Floating Point Numbers	11827: Maximum GCD	11831: Sticker Collector Robot
11849: CD	11854: Egypt	11875: Brick Game
11877: The Coco-Cola Store	11879: Multiple of 17	11900: Boiled Eggs
11933: Splitting Numbers	11934: Magic Formula	11936: The Lazy Lumberjacks
11942: Lumberjack Sequencing	11953: Battleships	11984: A Change in Thermal Unit
11988: Broken Keyboard (a.k.a. Beiju Text)	11991: Easy Problem from Rujia Liu?	11995: I Can Guess the Data Structure!
12015: Google is Feeling Lucky	12032: The Monkey and the Oiled Bamboo	12096: The SetStack Computer
12100: Printer Queue	12107: One-Two-Three	12108: Extraordinarily Tired Students
12113: Sum of Different Primes	12149: Feynman	12157: Tariff Plan
12174: Assemble	12219: Searching Quickly	12250: Language Detection
12279: Emoogle Balance	12289: One-Two-Three	12325: Exact Change
12333: Where is the Marble?	12372: Packing for Holiday	12403: Save Setu
12405: Scarecrow	12412: A Problem of Miscommunication	12455: Bars
12468: Zapping	12478: Hardest Problem Ever (easy)	12502: Three Families
12503: Robot Instructions	12504: Updating a Dictionary	12545: Bits and Pieces
12554: A Child's Play	12558: Cycle Finding	12569: Sale
12577: Hajj-e-Akbar	12578: 10:6:2	12627: Error Correction
12646: Majority Decision	12657: Boxes in a Line	

Codeforces

Q1	Q2	Q3
1003A: Polycarp's Pockets	1030A: In Search of an Easy Problem	1077A: Frog Jumping
1092B: Teams Forming	1095A: Repeating Cipher	1097A: Gennady and a Card Game
110A: Nearly Lucky Number	112A: Petya and Strings	1154A: Restoring Three Numbers
115A: Party	116A: Tram	1183A: Nearest Interesting Number
1186A: Vus the Cossack and a Contest	118A: String Task	1196A: Three Piles of Candies
119A: Epic Game	1206B: Make Product Equal One	1220A: Cards
122A: Lucky Division	1234A: Equalize Prices Again	124A: The Number of Positions
1256A: Payment Without Change	1283A: Minutes Before the New Year	1285A: Mezo Playing Zoma
1294A: Collecting Coins	1294C: Product of Three Numbers	1296A: Array with Odd Sum
1296B: Food Buying	1303A: Erasing Zeroes	1304A: Two Rabbits
1311A: Add Odd or Subtract Even	1312A: Two Regular Polygons	131A: cAPS IOCK
1324A: Yet Another Tetris Problem	1324B: Yet Another Palindrome Problem	1324C: Frog Jumps
1325A: EhAb AnD gCd	1325B: CopyCopyCopyCopyCopy	1326A: Bad Ugly Numbers
1326B: Maximums	1327A: Sum of Odd Integers	1328A: Divisibility Problem
1328B: K-th Beautiful String	1328C: Ternary XOR	1333A: Little Artem
1334B: Middle Class	1335A: Candies and Two Sisters	1335B: Fair Division
1335C: Hidden Word	1335D: Anti-Sudoku	1337A: Ichihime and Triangle
1337B: Kana and Dragon Quest game	1339A: Filling Diamonds	1339B: Sorted Adjacent Differences
133A: HQ9+	1341A: Nastya and Rice	1342A: Road To Zero
1342B: Binary Period	1343A: Candies	1343B: Balanced Array
1343C: Alternating Subsequence	1345A: Hilbert's Hotel	1345B: Card Constructions
1348A: Phoenix and Balance	1350A: Orac and Factors	1352A: Sum of Round Numbers
1352B: Same Parity Summands	1352C: K-th Not Divisible by n	1353A: Most Unstable Array
1353B: Number of Apartments	1353C: Board Moves	1354A: Alarm Clock
1354B: Ternary String	1355A: Sequence with Digits	1355B: Young Explorers
1358A: Park Lighting	1358B: Maria Breaks the Self-isolation	1359A: Berland Poker
1359B: New Theatre Square	1360A: Minimal Square	1360B: Honest Coach
1360C: Similar Pairs	1360D: Buying Shovels	1363A: Odd Selection
1365A: Matrix Game	1365B: Trouble Sort	1366A: Shovels and Swords

Q1	Q2	Q3
1367A: Short Substrings	1367B: Even Array	1368A: C+=
1369A: FashionabLee	1369B: AccurateLee	136A: Presents
1370A: Maximum GCD	1371A: Magical Sticks	1372A: Omkar and Password
1372B: Omkar and Last Class of Math	1373A: Donut Shops	1373B: Balanced Tunnel
1374A: Required Remainder	1374B: Multiply by 2, divide by 6	1374C: Move Brackets
1382A: Common Subsequence	1382B: Sequential Nim	1385A: Three Pairwise Maximums
1385B: Restore the Permutation by Merger	1385C: Make It Good	1388A: Captain Flint and Crew Recruitment
1389A: LCM Problem	1391A: Suborray	1391B: Fix You
1397A: Juggling Letters	1398A: Bad Triangle	1398B: Substrings Sort
1399A: Remove Smallest	1399B: Gifts Fixing	1399C: Boats Competition
1400A: String Similarity	1401A: Distance and Axis	1409A: Yet Another Two Integers Problem
1409B: Minimum Product	141A: Amusing Joke	1426A: Floor Number
1433A: Boring Apartments	1433B: Yet Another Bookshelf	1433C: Dominant Piranha
1436A: Reorder	144A: Arrival of the General	1451A: Subtract or Divide
1454A: Special Permutation	1454B: Unique Bid Auction	1455A: Strange Functions
1462A: Favorite Sequence	1462B: Last Year's Substring	1462C: Unique Number
1466A: Bovine Dilemma	1467A: Wizard of Orz	1469A: Regular Bracket Sequence
1472A: Cards for Friends	1472B: Fair Division	1472C: Long Jumps
1473A: Replacing Elements	1473B: String LCM	1474A: Puzzle From the Future
1475A: Odd Divisor	1475B: New Year's Number	1476A: K-divisible Sum
1478A: Nezzar and Colorful Balls	1480A: Yet Another String Game	1481A: Space Navigation
1486A: Shifting Stacks	1487A: Arena	148A: Insomnia cure
1490A: Dense Array	1490B: Balanced Remainders	1490C: Sum of Cubes
1497A: Meximization	149A: Business trip	1506A: Strange Table
1509A: Average Height	1512A: Spy Detected!	1512B: Almost Rectangle
1514A: Perfectly Imperfect Array	1516A: Tit for Tat	1517A: Sum of 2050
1519A: Red and Blue Beans	1519B: The Cake Is a Lie	151A: Soft Drinking
1520A: Do Not Be Distracted!	1520B: Ordinary Numbers	1520C: Not Adjacent Matrix
1520D: Same Differences	1521A: Spy Syndrome 2	1525A: Potion-making
1526A: Mean Inequality	1527A: And Then There Were K	1529A: In Game Theory
1535A: Fair Playoff	1535B: Array Reordering	1537A: Arithmetic Array
1537B: Bad Boy	1538A: Stone Game	1538B: Friends and Gifts
1541A: Pretty Permutations	1542A: Odd Set	1547A: Shortest Path with Obstacle

Q1	Q2	Q3
1547B: Alphabetical Strings	1549A: Gregor and the Pawn Game	1550A: Find The Array
1551A: Polycarp and Coins	1551B1: Wonderful Coloring - 1	1552A: Subsequence Addition
1553A: Digits Sum	1554A: Cherry	1555A: PizzaForces
1557A: Ezzat and Two Subsequences	155A: I_love_%username%	1560A: Dislike of Threes
1560B: Who's Opposite?	1560C: Infinity Table	1562A: The Great Hero
1567A: Domino Disaster	1569A: The Raising Sand	1579A: Casimir's String Solitaire
1582A: Luntik and Concerts	1582B: Luntik and Subsequences	1582C: Luntik and Subsequences
1585A: Pretty Permutations	1585B: Find The Array	1585C: Wonderful Coloring - 1
158A: Next Round	158B: Taxi	1593A: Casimir's String Solitaire
1607A: Dislike of Threes	1608A: Luntik and Concerts	1608B: Luntik and Subsequences
1609A: Domino Disaster	1609B: Infinity Table	1609C: The Great Hero
160A: Luntik and Subsequences	1610A: Pretty Permutations	1610B: Find The Array
1610C: Wonderful Coloring - 1	1611A: Next Round	1612A: Taxi
1612B: Casimir's String Solitaire	1612C: Dislike of Threes	1613A: Luntik and Concerts
1613B: Luntik and Subsequences	1613C: Domino Disaster	1614A: Infinity Table
1614B: The Great Hero	1614C: Luntik and Subsequences	1615A: Pretty Permutations
1615B: Find The Array	1615C: Wonderful Coloring - 1	1616A: Next Round
1616B: Taxi	1616C: Casimir's String Solitaire	1617A: Dislike of Threes
1617B: Luntik and Concerts	1617C: Luntik and Subsequences	1618A: Domino Disaster
1618B: Infinity Table	1618C: The Great Hero	1618D: Luntik and Subsequences
1619A: Pretty Permutations	1619B: Find The Array	1619C: Wonderful Coloring - 1
1620A: Next Round	1620B: Taxi	1620C: Casimir's String Solitaire
1621A: Dislike of Threes	1621B: Luntik and Concerts	1622A: Luntik and Subsequences
1622B: Domino Disaster	1622C: Infinity Table	1623A: The Great Hero
1623B: Luntik and Subsequences	1623C: Pretty Permutations	1624A: Find The Array
1627A: Wonderful Coloring - 1	1627B: Next Round	1669A: Taxi
1676A: Casimir's String Solitaire	1692A: Dislike of Threes	1703A: Luntik and Concerts
1742A: Luntik and Subsequences	1763A: Domino Disaster	189A: Infinity Table
1902A: The Great Hero	1902B: Luntik and Subsequences	1902C: Pretty Permutations
1902D: Find The Array	1902E: Wonderful Coloring - 1	1902F: Next Round
1907A: Taxi	1907B: Casimir's String Solitaire	1907C: Dislike of Threes
1915A: Luntik and Concerts	1915B: Luntik and Subsequences	1915C: Domino Disaster
1915D: Infinity Table	1915E: The Great Hero	1915F: Luntik and Subsequences
1916A: Pretty Permutations	1916B: Find The Array	1916C: Wonderful Coloring - 1
1917A: Next Round	1917B: Taxi	1917C: Casimir's String Solitaire
1917D: Dislike of Threes	1A: Theatre Square	200B: Drinks

Q1	Q2	Q3
208A: Dubstep	214A: System of Equations	228A: Is your horseshoe on the other hoof?
230A: Dragons	230B: T-primes	231A: Team
233A: Perfect Permutation	236A: Boy or Girl	255A: Greg's Workout
25A: IQ test	263A: Beautiful Matrix	265A: Colorful Stones (Simplified Edition)
266A: Stones on the Table	266B: Queue at the School	268A: Games
268B: Buttons	270A: Fancy Fence	271A: Beautiful Year
279B: Books	281A: Word Capitalization	282A: Bit++
313A: Ilya and Bank Account	313B: Ilya and Queries	318A: Even Odds
320A: Magic Numbers	327A: Flipping Game	32B: Borze
330A: Cakeminator	337A: Puzzles	339A: Helpful Maths
339B: Xenia and Ringroad	344A: Magnets	349A: Cinema Line
34B: Sale	358A: Dima and Continuous Line	358B: Dima and a Bad X
361A: Levko and Table	363A: Soroban	363B: Fence
363C: Pashmak and Garden	368B: Sereja and Suffixes	369A: Valera and Plates
369B: Valera and Contest	379A: New Year Candles	381A: Sereja and Dima
405A: Gravity Flip	41A: Translation	427A: Police Recruits
431A: Black Square	432A: Choosing Teams	433B: Kuriyama Mirai's Stones
439A: Devu, the Singer and Churu, the Joker	43A: Football	443A: Anton and Letters
448A: Rewards	451A: Game With Sticks	451B: Sort the Array
455A: Boredom	456A: Laptops	459A: Pashmak and Garden
459B: Pashmak and Flowers	460A: Vasya and Socks	466A: Cheap Travel
466C: Number of Ways	467A: George and Accommodation	467B: Fedor and New Game
469A: I Wanna Be the Guy	472A: Design Tutorial: Learn from Math	474A: Keyboard
474B: Worms	476A: Dreamoon and Stairs	476B: Dreamoon and WiFi
478A: Initial Bet	478B: Random Teams	479A: Expression
479C: Exams	486A: Calculating Function	489B: BerSU Ball
489C: Given Length and Sum of Digits...	490A: Team Olympiad	492A: Vanya and Cubes
492B: Vanya and Lanterns	499B: Lecture	4A: Watermelon
4C: Registration System	500A: New Year Transportation	509A: Maximum in Table
50A: Domino piling	510A: Fox And Snake	514A: Chewbacca and Number
519B: A and B and Compilation Errors	520A: Pangram	520B: Two Buttons

Q1	Q2	Q3
540A: Combination Lock	546A: Soldier and Bananas	550A: Two Substrings
556A: Case of the Zeros and Ones	567A: Lineland Mail	577A: Multiplication Table
579A: Raising Bacteria	580A: Kefa and First Steps	580C: Kefa and Park
581A: Vasya the Hipster	584A: Olesya and Rodion	58A: Chat room
599A: Patrick and Shopping	59A: Word	617A: Elephant
61A: Ultra-Fast Mathematician	630A: Again Twenty Five!	677A: Vanya and Fence
686A: Free Ice Cream	688B: Lovely Palindromes	69A: Young Physicist
702A: Maximum Increase	703A: Mishka and Game	705A: Hulk
706B: Interesting drink	707A: Brain's Photos	711A: Bus to Udayland
71A: Way Too Long Words	723A: The New Year: Meeting Friends	731A: Night at the Museum
732A: Buy a Shovel	732B: Cormen —The Best Friend Of a Man	734A: Anton and Danik
734B: Anton and Digits	742A: Arpa's hard exam and Mehrdad's naive cheat	749A: Bachgold Problem
750A: New Year and Hurry	758A: Holiday Of Equality	766B: Mahmoud and a Triangle
785A: Anton and Polyhedrons	791A: Bear and Big Brother	80A: Panoramix's Prediction
822A: I'm bored with life	82A: Double Cola	894A: QAQ
935A: Fafa and his Company	959A: Mahmoud and Ehab and the even-odd game	96A: Football
977A: Wrong Subtraction	977B: Two-gram	978B: File Name
996A: Hit the Lottery	9A: Die Roll	CF1511A: Odd Divisor

End

"If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is."—John von Neumann