

演算法問題解答

這裡是來自 GitHub 項目 <https://github.com/lzwjava/algorithm-solutions> 的 README.md。

算法問題解答

這些是來自線上評判平台的一些算法問題解答。

平台	已解決問題數
UVa	568
Codeforces	419
LeetCode	20
Hacker Rank	20(SQL)

語言	代碼行數
Java	70851
C++	3214
Python	1193
SQL	101

此項目包含來自 Codeforces、HackerRank、LeetCode、Lintcode、Nowcoder 和 UVa 等平台的各種算法問題解答。每個解答按問題編號分類，並包含源代碼、輸入檔案，以及偶爾的附加文件。

項目結構

- README.md: 此檔案。
- codeforces/: 包含 Codeforces 問題的解答。
- hacker_rank/: 包含 HackerRank SQL 問題的解答。
- leetcode/: 包含 LeetCode 問題的解答。
- lintcode/: 包含 Lintcode 問題的解答。
- nowcoder/: 包含 Nowcoder 問題的解答。
- uva/: 包含 UVa 問題的解答。

Codeforces

codeforces 目錄中的每個子目錄以問題編號命名，並包含以下內容：

- 1.in: 問題的輸入檔案。
- src/Main.java: 含有該問題解答的 Java 源代碼檔案。

HackerRank

hacker_rank 目錄中包含各種問題的 SQL 檔案。每個檔案以其解答的問題命名。

LeetCode

leetcode 目錄中包含不同問題的 Python 腳本。檔案名稱以解答的問題命名，例如 two_sum.py 或 valid_parentheses.py。

Lintcode

lintcode 目錄中的每個子目錄以問題編號命名，並包含以下內容：

- src/com/lintcode/Main.java: 解答的主類別檔案。
- src/com/lintcode/Solution.java: 問題的解答類別檔案。
- src/com/lintcode/: 根據問題需求的其他類別檔案。

Nowcoder

nowcoder 目錄中的每個子目錄以問題編號命名，並包含以下內容：

- Solution.java: 問題的解答類別檔案。
- Test.java: 問題的測試類別檔案。
- TreeNode.java: (如適用) 針對涉及樹結構的問題的 TreeNode 類別檔案。

UVa

已解決: 568, 投交: 1776

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

Q1	Q2	Q3
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: Anagrams
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: Quirky 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: Quadrees	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 Digitis
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
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' Bits n' 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

Q1	Q2	Q3
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
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?

Q1	Q2	Q3
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
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

Q1	Q2	Q3
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 !!!
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

Q1	Q2	Q3
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
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

Q1	Q2	Q3
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: Emoogles 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 lOCK
1324A: Yet Another Tetris Problem	1324B: Yet Another Palindrome Problem	1324C: Frog Jumps

Q1	Q2	Q3
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
1367A: Short Substrings	1367B: Even Array	1368A: C+=
1369A: FashionableLee	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: Subarray	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

Q1	Q2	Q3
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
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

Q1	Q2	Q3
1622B: Domino Disaster	1622C: Infinity Table	1623A: The Great Hero
1623B: Luntik and Subsequences	1623C:	