Code Saga:

Problems:

ARRAYS

1. 90 DEGREE SHIFT ; SEMI-PRO

2. CHESSBOARD ; WORLD CLASS

3. REVERSE AN ARRAY ; TRAINEE

4. MONOTONIC ARRAY ; TRAINEE

5. MULTIPLICATIVE ARRAY ; AMATEUR

6. SORT 012 ; AMATEUR

7. PAIR ADDITION ; AMATEUR

8. FIX THE ARRAY ; AMATEUR

9. SPIRAL ARRAY ; AMATEUR

10. DUPLICATE ELIMINATION ; AMATEUR

11. LARGEST RANGE ; SEMI-PRO

12. TRINITY SUMMATION ; SEMI-PRO

13. LARGEST HILL ; SEMI-PRO

14. ZIGZAG ARRAY ; SEMI-PRO

15. KTH SMALLEST ELEMENT ; PROFESSIONAL

16. MERGE N RANKED ARRAYS ; PROFESSIONAL

17. STOCK MARKET ; PROFESSIONAL

18. GRADING STUDENTS ; PROFESSIONAL

19. MAX DIFFERENCE ARRAY ; PROFESSIONAL

20. DUPLICATE AND LOST ; PROFESSIONAL

21. QUEUE IN SCHOOL ASSEMBLY ; PROFESSIONAL

22. PVR MANAGEMENT SYSTEM ; PROFESSIONAL

23. HOUSE HUNTING ; WORLD CLASS

24. 33 PERCENT CHECK ; WORLD CLASS

25. MEDIAN OF TWO SORTED ; ARRAYS WORLD CLASS

26. GOOGLE SUITE FEATURE ; LEGENDARY

TREES

1. COMPLETE BINARY TREE ; PROFESSIONAL

2. HEIGHT OF BINARY TREE ; TRAINEE

3. LEVEL ORDER TRAVERSAL ; TRAINEE

4. DIAMETER OF BINARY TREE ; AMATEUR

5. TREE REFLECTION ; AMATEUR

6. FIELD OF VISION TREE AMATEUR

7. ZIGZAG TREE AMATEUR

8. BALANCED TREE AMATEUR

9. TREE DIFFERENCE AMATEUR

10. MAX EVEN DIGIT AGGREGATE AMATEUR

11. SECOND LEAST VALUE AMATEUR

12. MAX SUM PATH L-L SEMI-PRO

13. MAX SUM PATH N-L SEMI-PRO

14. VERIFY SUMTREE SEMI-PRO

15. SQUASH BINARY TREE SEMI-PRO

16. SUBTREE VERIFICATION SEMI-PRO

17. MARGIN TRAVERSAL PROFESSIONAL

18. MAX SUM PATH N-N PROFESSIONAL

19. RESTRUCTURE SIBLING TREE PROFESSIONAL

20. ITERATIVE INORDER TRAVERSAL WORLD CLASS

DYNAMIC PROGRAMMING

1. 0 1 KNAPSACK PROFESSIONAL FREE

2. ROTATING COLLECTION CHALLENGE PROFESSIONAL FREE

3. NTH FIBONACCI TRAINEE

4. FITNESS POLICY IN OFFICE AMATEUR

5. CURRENCY SPLIT AMATEUR

6. LEVENSHTEIN DISTANCE SEMI-PRO

7. LONGEST COMMON SUBSEQUENCE SEMI-PRO

8. LONGEST INCREASING SUBSEQUENCE SEMI-PRO

9. WHOLESALER CONUNDRUM SEMI-PRO

10. PLATINUM EXTRACTION SEMI-PRO

11. PAINT A NEIGHBOURHOOD SEMI-PRO

12. RAINWATER HARVESTING SYSTEM SEMI-PRO

13. BANDIT QUEEN PROFESSIONAL

14. MIN SUM PARTITION PROFESSIONAL

15. DISTINCT SUBSEQUENCES OF NATURE A+B+C PROFESSIONAL

16. CONSECUTIVE NUMBERS PROFESSIONAL

17. TERM SET PROFESSIONAL

18. GAME IN DIWALI CARNIVAL PROFESSIONAL

19. R.A.W AGENT CONUNDRUM PROFESSIONAL

20. LLAP PROFESSIONAL

21. SUBSET AGGREGATE PROFESSIONAL

22. BUNNY HOP RACE PROFESSIONAL

23. UNUSUAL CONSOLE PROFESSIONAL

24. MIGRANT TRAVEL PROFESSIONAL

25. THE 100 GAME PROFESSIONAL

26. REGULAR EXPRESSION MATCH PROFESSIONAL

27. GANGS OF WASSEYPUR PROFESSIONAL

28. BARTENDER CONUNDRUM PROFESSIONAL

29. FRUIT PICKUP WORLD CLASS

30. MAX SQUARE OF 1'S WORLD CLASS

31. RIGGED LIE DETECTOR WORLD CLASS

32. TASK MANAGEMENT SYSTEM WORLD CLASS

33. WORD ENCLOSE WORLD CLASS

34. BEST FOOD BY CHEF WORLD CLASS

35. EGG DROP LEGENDARY

36. MIN PALINDROME SEGREGATION LEGENDARY

37. MISHMASH STRING LEGENDARY

38. STORING TUPPERWARE CONTAINERS LEGENDARY

39. ATTENDANCE MANAGEMENT LEGENDARY

40. REMOVING BLIND SPOTS LEGENDARY

LINKED LIST

1. LRU CACHE WORLD CLASS FREE

2. DETACH DESIRED NODE FROM EXTREMITY AMATEUR

3. REVERSE A LINKED LIST AMATEUR

4. ADDITION OF ONE AMATEUR

5. DETECTING MIDDLE ELEMENT AMATEUR

6. SORT LIST AMATEUR

7. SPECIAL ANAGRAM LIST AMATEUR

8. SPORTS DAY RACE AMATEUR

9. CLASS MONITOR TASK AMATEUR

10. DELETE WITHOUT HEAD POINTER SEMI-PRO

11. INTERSECTION POINT SEMI-PRO

12. UNIFICATION OF LINKED LIST SEMI-PRO

13. SCHOOL TRIP ATTENDANCE SHEET SEMI-PRO

14. SINGLE FLIP SEMI-PRO

15. EXAM EVALUATION SEMI-PRO

16. REPRODUCE LINKED LIST PROFESSIONAL

17. DISCOVER AND DISCONNECT LOOP PROFESSIONAL

18. DESIGNATED FLIP PROFESSIONAL

19. SQUASH MLLL PROFESSIONAL

20. RESTRUCTURE LIST WORLD CLASS

STRINGS

1. THE IMITATION GAME TRAINEE

2. SPECIAL STL FUNCTION TRAINEE

3. REVERSE WORDS AMATEUR

4. EXTRACT THE NUMBER AMATEUR

5. IP CHECKER AMATEUR

6. CONVERT TO PALINDROME AMATEUR

7. BUILD STATUS AMATEUR

8. TRIP TO 300BC ROME AMATEUR

9. STRING CONVERSION AMATEUR

10. PREDICT THE SECRET SEMI-PRO

11. JUMBLED WORD SET SEMI-PRO

12. HIGHLIGHTING TERM SEMI-PRO

13. SEQUENCE CHECKER SEMI-PRO

14. LONGEST SUBSEQUENCE WITHOUT DUPLICATES PROFESSIONAL

15. ALL TRAIT OF CHILD IN PARENT PROFESSIONAL

GRAPHS

1. RED STRUCTURES SEMI-PRO FREE

2. TUNNEL CONSTRUCTION SEMI-PRO

3. SMALLEST MULTIPLE OF K SEMI-PRO

4. COURTHOUSE SEMI-PRO

5. BIPARTITE GRAPH PROFESSIONAL

6. COMPLETING MY DEGREE PROFESSIONAL

7. SPOT CYCLE PROFESSIONAL

8. BOARD GAMES IN VACATION PROFESSIONAL

9. TREES IN A FOREST PROFESSIONAL

10. DISTINCTIVE GRAPH TRAVERSAL PROFESSIONAL

11. AGE OF EMPIRES PROFESSIONAL

12. DUPLICATE GRAPH PROFESSIONAL

13. COUNT NO. OF ISLANDS WORLD CLASS

14. KNIGHT EXPEDITION WORLD CLASS

15. SPOILED FRUIT WORLD CLASS

16. FOREIGN DICTIONARY WORLD CLASS

17. DICTIONARY MANIPULATION WORLD CLASS

18. COUNT SHAPES WORLD CLASS

19. VALENTINES DAY WORLD CLASS

20. VIRUS ATTACK WORLD CLASS

21. WORLD TOUR LEGENDARY

22. WORD PROBE LEGENDARY

23. INESSENTIAL ATTACHMENT LEGENDARY

STACKS AND QUEUES

1. INFIX TO POSTFIX AMATEUR

2. CONNECTION MANAGER AMATEUR

3. BRACKETS COUPLE SEMI-PRO

4. MIN MAX FABRICATION SEMI-PRO

5. DIRECTORY MANAGEMENT SEMI-PRO

6. CLOSEST SMALLER NEIGHBOUR SEMI-PRO

7. CPU MANAGER SEMI-PRO

8. SOLVE EXPRESSION PROFESSIONAL

9. MAX AREA IN A GRAPH PROFESSIONAL

10. SLIDING WINDOW MAXIMUM PROFESSIONAL

SEARCHING

1. BINARY SEARCH TRAINEE

2. ELEMENT APPEARING ONCE TRAINEE

3. THREE GREATEST NUMBERS TRAINEE

4. MAZE HUNTING AMATEUR

5. DIGIT SET AMATEUR

6. SEEKING THE RANGE SEMI-PRO

7. REPOSITIONED SEARCH SEMI-PRO

8. MEDIAN OF ARRAY SEMI-PRO

9. SCHOOL LIBRARY PROFESSIONAL

10. AMAZON WAREHOUSE PROFESSIONAL

RECURSION

1. LEVEL ORDER SPIRAL AMATEUR

2. KTH FIBONACCI AMATEUR

3. PERMUTATIONS OF STRING AMATEUR

4. SUBSETS AMATEUR

5. TRACKWAYS OF GAME BOARD SEMI-PRO

6. GREETINGS SEMI-PRO

7. COALITION SUM PROFESSIONAL

8. CATALOGUE STACK PROFESSIONAL

9. COMPANY STRUCTURE PROFESSIONAL

10. ALL BINARY TREES WORLD CLASS

BINARY SEARCH TREE

1. BST TRAVERSAL AMATEUR

2. ELIMINATE SPECIAL NODES AMATEUR

3. FAMILY TREE SEMI-PRO

4. BST CERTIFICATION SEMI-PRO

5. TARGET PRACTICE SEMI-PRO

6. IDENTICAL BST'S SEMI-PRO

7. SORTED ARRAY TO AVL TREE SEMI-PRO

8. UNIQUE BST PROFESSIONAL

9. UNIFIED BST PROFESSIONAL

10. BST ITERATOR WORLD CLASS

MATHEMATICAL

1. PUSH PULL DOOR TRAINEE

2. POWER EXPRESSION TRAINEE

3. NTH ROOT AMATEUR

4. PERFECT NUMBERS AMATEUR

5. MAXIMIZE VOLUME AMATEUR

6. TRAILING ZEROS IN FACTORIAL AMATEUR

7. PRIME PAIR SUMMATION AMATEUR

8. STUDENT RETURNING FROM SCHOOL SEMI-PRO

9. GOOGLE SHEETS TITLE SEMI-PRO

10. RESTRUCTURE ARRAY SEMI-PRO

11. COUPLED HAMMING DISTANCE SEMI-PRO

12. PERMUTATION SORTED PROFESSIONAL

SORTING

1. BUBBLE SORT TRAINEE

2. SELECTION SORT TRAINEE

3. INSERTION SORT AMATEUR

4. HEAP SORT SEMI-PRO

5. MERGE SORT SEMI-PRO

6. QUICK SORT SEMI-PRO

7. RADIX SORT SEMI-PRO

BIT MANIPULATION

1. COUNT 1 TRAINEE

2. SET BITS TRAINEE

3. INTERNAL SWAPPING TRAINEE

4. XOR MINIMISATION AMATEUR

5. FLIP BITS AMATEUR

6. OPERATION WITHOUT OPERATORS AMATEUR

7. SINGLE ON VALENTINES AMATEUR

8. COUPLE MATCHING AMATEUR

9. BIT PAIR OPERATION SEMI-PRO

10. TRIPLET MEETING SEMI-PRO

11. DNA CHECK PROFESSIONAL

12. TEAM JERSEY SELECTION WORLD CLASS

BACKTRACKING

1. RANGOLI MAKING COMPETITION SEMI-PRO

2. GENERATE PAIRS SEMI-PRO

3. COMBINATIONS SEMI-PRO

4. POWER SET DUPLICATES SEMI-PRO

5. HELP ME FIND CHEESE PROFESSIONAL

6. NQUEENS PROFESSIONAL

7. SUDOKU AUTOMATION WORLD CLASS

HEAPS

1. MIN HEAP AMATEUR

2. ROCK FIGHT AMATEUR

3. COMBINATION SUMMATION PROFESSIONAL

4. MAX HEAP PRODUCTION METHODS PROFESSIONAL

5. SCANNING CODES PROFESSIONAL

6. SORT THE SORTED ARRAY PROFESSIONAL

7. CONTINOUS MEDIAN WORLD CLASS

HASHING

1. LONGEST CONSECUTIVE SUBSEQUENCE SEMI-PRO

2. LOCK AND KEY SEMI-PRO

3. SUDOKU CHECK SEMI-PRO

4. SPECIAL ADDITIVE EQUATION SEMI-PRO

5. SPECIAL REDUCTION EQUATION SEMI-PRO

6. POINTS IN PLANE PROFESSIONAL

7. MIN WINDOW PROFESSIONAL

8. SUBSTRING CONCATENATION LEGENDARY

FAMOUS ALGORITHMS

1. AVENGERS ASSEMBLE AMATEUR

2. DOMINOS PIZZA SYSTEM AMATEUR

3. KADANE'S ALGORITHM SEMI-PRO

4. MOORE'S VOTING ALGORITHM SEMI-PRO

5. MOBILE TOWER PROFESSIONAL

6. RAILWAY STATION MANAGEMENT PROFESSIONAL

7. INVERSION COUNT PROFESSIONAL

8. ROAD TRIP WORLD CLASS

TRIES

1. SUFFIX TRIE CONSTRUCTION SEMI-PRO

2. RATING SYSTEM SEMI-PRO

3. MULTI STRING SEARCH PROFESSIONAL

4. SHORTEST DISTINCTIVE PREFIX WORLD CLASS

5. CONTACTS DIARY LEGENDARY