

Table 1

| LC   | Desc                                  | Freq |   |   |  |
|------|---------------------------------------|------|---|---|--|
| 283  | Move Zeroes                           | 9    | 不需要保留原来数组里元素的相对位置同时要求对数组写入次数最少（读并不受限制）。一样是2 pointers解   |   |  |
| 301  | Remove invalid parenthesis            | 8    |   |   |  |
| 15   | 3sum                                  | 7    | 不能sort  |   |  |
| 17   | Letter Combinations of a Phone Number | 6    |   |   |  |
| 67   | Add binary                            | 7    |   |   |  |
| 311  | Sparse matrix multiplication          | 6    |   |   |  |
| 621  | Task scheduler                        | 5    | 顺序不能变   |   |  |
| 1    | two sum                               |      | 如果是three sum会有什么变化，如果有重复值，要求输出所有值一样但是index不一样，或者要求筛掉所有值一样的该怎么做，甚至用two sum方程作为API，three sum该怎么用它 |   |  |
| 76   | Minimum Window Substring              | 5    |   |   |  |
| 125  | Valid Palindrome                      | 5    |   |   |  |
| 253  | Meeting rooms II                      | 4    |   |   |  |
| 273  | Integer to English Words              | 4    |   |   |  |
| 297  | Serialize and Deserialize Binary Tree | 4    |   |   |  |
| 314  | Binary tree vertical order traversal  | 4    |   |   |  |
| 639  | Decode ways II                        | 4    |   |   |  |
| 75   | Sort Colors                           | 3    |   |   |  |
| 91   | Decode ways                           | 3    |   |   |  |
| 98   | Validate Binary Search Tree           | 3    | 不用递归  |   |  |
| 133  | Clone graph                           | 3    |   |   |  |
| 139  | Word Break                            | 3    |   |   |  |
| 158  | Read N characters given Read4         | 3    | 写个方法打印一行string， 每行以 '\n' 结尾   |   |  |
| 200  | Number of islands                     | 3    |   |   |  |
| 277  | Find the Celebrity                    | 3    |   |   |  |
| 278  | First bad version                     | 3    |   |   |  |
| 282  | Expression Add Operators              | 3    |   |   |  |
| 325  | Maximum Size Subarray Sum Equals k    | 3    |   |   |  |
| 1001 |                                       | 3    | BST to sorted circular double LinkedList  | <a href="http://www.1point3acres.com/bbs/thread-297230-1-1.html">http://www.1point3acres.com/bbs/thread-297230-1-1.html</a> |  |
| 29   | Divide two integers                   | 2    |   |   |  |
| 33   | Search in Rotated Sorted Array        | 2    |   |   |  |
| 43   | Multiply Strings                      | 2    |   |   |  |
| 47   | Permutation II                        | 2    |   |   |  |
| 56   | merge intervals                       | 2    |   |   |  |
| 65   | Valid Number                          | 2    |   |   |  |

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|------|--|------|---|---|--|
| 121  | Best Time to Buy and Sell Stock                | 2    |   |   |  |
| 188  | Best Time to Buy and Sell Stock IV             | 2    |   |   |  |
| 189  | Rotate array                                   | 2    |   |   |  |
| 210  | Course Schedule II                             | 3    |   |   |  |
| 349  | Intersection of Two Arrays                     | 2    |   |   |  |
| 560  | Subarray Sum Equals K                          | 2    |   |   |  |
| 1002 |  | 2    | 一个二维数组，每一行都只有0和1，前面部分是0，后一部分是1，找到数组里面最左边的1的那一列数   | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=298302">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=298302</a> |  |
| 1003 |  | 3    | 前提是让字符串分block比较，相连的字母组成一个block，相连的数字组成一个block，比如“abcd12ef3”由4个block组成，两个字符串变成两组block之后对应的block挨个比较，如果对应的block一个是字母一个是数字，那么字母小于数字；如果对应的block都是字母，用的是String的标准的比较方法；如果对应的两个block都是数字，那么比较数字的绝对值大小 |   |  |
| 1004 |  | 2    | 机器人走房间  |   |  |
| 1005 |  | 2    | online musice service的两个API， API1: record user listen to song, API2: return top 10 songs played by any user.  | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297030">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297030</a> |  |
| 1006 |  | 3    | 一串数字是不递减的或者不递增  | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=294881">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=294881</a> |  |
| 3    | Longest Substring Without Repeating Characters | 1    |   |   |  |
| 10   | Regular expression matching                    | 1    |   |   |  |
| 28   | implement strstr()                             | 1    |   |   |  |
| 38   | Count and say                                  | 1    | seed could be any string  |   |  |
| 39   | Combination Sum                                | 1    |   |   |  |
| 46   | Permutation                                    | 1    |   |   |  |
| 51   | N-Queens                                       | 1    |   |   |  |
| 53   | Maximum Subarray                               | 1    |   |   |  |
| 73   | Set Matrix Zeroes                              | 1    |   |   |  |
| 78   | Subsets  | 2    |   |   |  |
| 79   | Word Search                                    | 1    | 不能在原始char[][]里面标记，于是把visited boolean[][] 换成了stack<position>.  |   |  |
| 88   | Merge Sorted Array                             | 1    |   |   |  |
| 93   | Restore IP Addresses                           | 1    |   |   |  |
| 124  | Binary Tree Maximum Path Sum                   | 1    |   |   |  |
| 138  | Copy List with Random Pointer                  | 1    |   |   |  |
| 143  | Reorder List                                   | 1    |   |   |  |
| 146  | LRU Cache                                      | 1    |   |   |  |
| 155  | Min Stack                                      | 1    |   |   |  |

| LC  | Desc  | Freq |   |   |  |
|-----|---|------|---|---|--|
| 173 | Binary Search Tree Iterator                       | 1    |   |   |  |
| 200 | Number of Islands                                 | 1    |   |   |  |
| 206 | Reverse Linked List                               | 1    |   |   |  |
| 211 | Add and Search Word - Data structure design       | 1    |   |   |  |
| 215 | Kth largest element in an array                   | 1    |   |   |  |
| 237 | Delete Node in a Linked List                      | 1    |   |   |  |
| 257 | Binary Tree Paths                                 | 1    |   |   |  |
| 259 | 3sum smaller                                      | 1    |   |   |  |
| 268 | Missing number                                    | 1    |   |   |  |
| 285 | Inorder Successor in BST                          | 1    |   |   |  |
| 308 | Range Sum Query 2D - Mutable                      | 1    |   |   |  |
| 341 | Flatten Nested List Iterator                      | 1    |   |   |  |
| 348 | Design Tic-Tac-Toe                                | 1    |   |   |  |
| 350 | Intersection of Two Arrays II                     | 1    |   |   |  |
| 381 | Insert Delete GetRandom O(1) - Duplicates allowed | 1    |   |   |  |
| 393 | UTF8 Validation                                   | 1    |   |   |  |
| 415 | Add Strings                                       | 1    |   |   |  |
| 477 | Total Hamming Distance                            | 1    |   |   |  |
| 525 | Contiguous Array                                  | 1    |   |   |  |
| 543 | Diameter of Binary Tree                           | 1    |   |   |  |
| 572 | Subtree of Another Tree                           | 1    |   |   |  |
| 640 | Solve the Equation                                | 1    |   |   |  |
| 647 | Palindromic Substrings                            | 1    |   |   |  |
| 654 | Maximum Binary Tree                               | 1    |   |   |  |
|     |   | 1    | 给一个有正有负的递增数列，返回一个按绝对值大小排列的数列                                      |   |  |
|     |   | 1    | 离原点最近的K个点   | 用map或者建一个class，避免重复计算distance   |  |
|     |   | 1    | 给一个int[]，输出所有 A + B = C + D 的unique index pairs, A B 下标不同，CD 下标不同 | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=296345">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=296345</a> |  |
|     |   | 1    | 多叉树所有最深节点的LCA   | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297696">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297696</a> |  |

| LC  | Desc         | Freq |  |   |  |
|-----|--------------|------|--|---|--|
|     |              | 1    | 链表找环,要求O(1)空间、不破坏链表结构, 时间复杂度best case O(1N), 双指针的方法best case是O(1.5N)   | <a href="http://www.1point3acres.com/bbs/thread-297230-1-1.html">http://www.1point3acres.com/bbs/thread-297230-1-1.html</a>                                   |  |
|     |              | 1    | check Bipartite  | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297817">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297817</a> |  |
|     |              | 1    | 给一个 unsorted integer array, 让按照low,mid, high排序   | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297858">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297858</a> |  |
|     |              | 1    | 找到一个二叉树最浅的根  | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297655">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297655</a> |  |
|     |              | 1    | 给了一个n*n的矩阵, 每一行都是排序的, 但列不是, 求中位数   | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=292872">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=292872</a> |  |
|     |              | 1    | 给一个质数数组, 输出所有的可能乘积   | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297186">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=297186</a> |  |
|     |              | 1    | find the length of shortest path between two nodes in a tree   |   |  |
|     |              | 1    | Find the max path that the nodes have continuous value, return length of the path  |   |  |
| 647 |              | 1    | 检查一个array, 看能不能在one swap以内把它变成ascending order  | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=294895">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=294895</a> |  |
|     |              | 1    | given a sorted number [1,1,2,2,3,4,4,5,5,5] return the total unique numbers and put them in the left side. i.e. return 5 and the left 5 numbers will be [1,2,3,4,5,The_rest_doesnt_matter] | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=295682">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=295682</a> |  |
|     |              | 1    | m*n matrix, 每个坐标都有一个character, 找到所有左上角到右下角的路径(只能向右向下走)并打印, 比如a->b->c。  | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=293245">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=293245</a> |  |
|     |              | 1    | 给你一个array [1, 1, 3, 4, 4, 5, 6]是sorted的, 返回target出现的次数   | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=293709">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=293709</a> |  |
| 670 | Maximum Swap | 1    |  |   |  |
|     |              |      |  |   |  |
|     |              |      |  |   |  |

|  | <a href="http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=195416&amp;extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26searchoption%5B3109%5D%5Bvalue%5D%3D1%26searchoption%5B3109%5D%5Btype%5D%3Dradio%26sortid%3D311">http://www.1point3acres.com/bbs/forum.php?mod=viewthread&amp;tid=195416&amp;extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26searchoption%5B3109%5D%5Bvalue%5D%3D1%26searchoption%5B3109%5D%5Btype%5D%3Dradio%26sortid%3D311</a> |  |  |  |
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