Coding questions part:

1. Maximum subarray sum (LC53) ok <https://leetcode.com/problems/maximum-subarray/#/description>
2. Maximum subarray product (LC318?) ok <https://leetcode.com/problems/maximum-product-of-word-lengths/#/description>
3. Flatten nested integer (LC 341) ok <https://leetcode.com/problems/flatten-nested-list-iterator/#/description>
4. Address similarity <http://www.1point3acres.com/bbs/thread-190507-1-1.html>

<http://stackoverflow.com/questions/520241/how-do-i-calculate-the-cosine-similarity-of-two-vectors>

具体算法

1. Group anagram (LC49) ok \* <https://leetcode.com/problems/anagrams/#/description>
2. Word break (LC139) ok \* <https://leetcode.com/problems/word-break/#/description>

word break. time complexity? follow-up: 如果所给的known word很大怎么办？如果有多种方法break一个句子，如何确定哪种方法更好？word break II用hashmap问题

1. Word ladder II (LC 126) ok? Hashmap使用问题
2. Given 4 points, determine whether its a Square, Rectangle, Diamond or 平行四边形 ok
3. Merge Intervals (LC 56) ok \* <https://leetcode.com/problems/merge-intervals/#/description>
4. Top K address - Top K frequent element (LC347) ok \* <https://leetcode.com/problems/top-k-frequent-elements/#/description>
5. Word Search I / II (LC 79 & 212) ok \* <https://leetcode.com/problems/word-search/#/description>
6. <https://leetcode.com/problems/word-search-ii/#/description>
7. Edit distance with minimum cost (LC 72) ok \* <https://leetcode.com/problems/edit-distance/#/description>
8. Different ways to add parenthesis (LC 241) ok <https://leetcode.com/problems/different-ways-to-add-parentheses/#/description>
9. Isomorphic String (LC 205) ok \* <https://leetcode.com/problems/isomorphic-strings/#/description>

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| --- |
| 1. 但問了follow up.如果兩個 string很大memory放不下要怎麼辦? 給你多一些Machine要怎麼做? |

hashtable size = 100 兩台機器  
hash index 0 ~ 99 放到 machine 1   
100 ~ 199 放到machine 2Top of Form

Bottom of Form

1. Reconstruct Itinerary (LC 332) ok \* <https://leetcode.com/problems/reconstruct-itinerary/#/description>
2. Reservoir Sampling with infinite stream
3. Maximum Square (LC 221) ok <https://leetcode.com/problems/maximal-square/#/description>
4. Regular Expression Matching (LC 10)
5. Course Schedule II (LC 207 & 210) <https://leetcode.com/problems/course-schedule/#/description>
6. Simplify Path (LC 71)
7. Cosine Similarity
8. Output all possible combination of a2c (变换大小写)
9. Flatten 2D vector (LC 251) ok
10. Min Stack (LC 155) ok \* <https://leetcode.com/problems/min-stack/#/description>
11. Implement BST (add find delete)
12. Select k smallest items in an array (LC 378 ) ok <https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/#/description>
13. Preorder - Inorder reconstruct tree (LC 105) \* <https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/#/description>
14. Amicable pairs <http://172.252.15.228/bbs/thread-106852-1-1.html>
15. Meeting Room II (LC 252 253) ok
16. Serialize and Deserialize binary tree (LC 297) <https://leetcode.com/problems/serialize-and-deserialize-binary-tree/#/solutions>
17. Search Matrix II (LC 74 240) ok <https://leetcode.com/problems/search-a-2d-matrix/#/description>
18. Find Duplicate number (LC 287) ok <https://leetcode.com/problems/find-the-duplicate-number/#/description>
19. First Bad Version (LC 278) ok <https://leetcode.com/problems/first-bad-version/#/description>
20. Skyline Problem (LC 218)
21. Insert Remove Random(1) I/II (LC 380 381) ok <https://leetcode.com/problems/insert-delete-getrandom-o1/#/description>
22. Basic SQLs
23. Sync Cursor row http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206463&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3D36%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311
24. LC 5 Longest Palindromic Substring (Phone) \* <https://leetcode.com/problems/longest-palindromic-substring/#/description>
25. LC 128 Longest Consecutive Sequence\* <https://leetcode.com/problems/longest-consecutive-sequence/#/description>
26. LC 22 Generate Parentheses\* <https://leetcode.com/problems/generate-parentheses/#/description>
27. LC 435 Non-overlapping Intervals <https://leetcode.com/problems/non-overlapping-intervals/#/description>
28. LC 208 Implement Trie (Prefix Tree) <https://leetcode.com/problems/implement-trie-prefix-tree/#/description>
29. LRU Cache
30. LC 3 \* Longest Substring Without Repeating Characters <https://leetcode.com/problems/longest-substring-without-repeating-characters/#/description>
31. LC 14\* Longest Common Prefix <https://leetcode.com/problems/longest-common-prefix/#/description>
32. LC 17 \* Letter Combinations of a Phone Number <https://leetcode.com/problems/letter-combinations-of-a-phone-number/#/description>
33. Sentence Screen Fitting <https://leetcode.com/problems/sentence-screen-fitting/#/description>
34. Integer to English Words <https://leetcode.com/problems/integer-to-english-words/#/description>
35. Best Time to Buy and Sell Stock <https://leetcode.com/problems/best-time-to-buy-and-sell-stock/#/description>
36. Word Pattern <https://leetcode.com/problems/word-pattern/#/description>
37. Longest Valid Parentheses <https://leetcode.com/problems/longest-valid-parentheses/#/description>