

Programming

Monday, January 27, 2020 10:51 PM

1. Pattern: Sliding window, 滑动窗口类型

经典题目：

Maximum Sum Subarray of Size K (easy)
Smallest Subarray with a given sum (easy)
Longest Substring with K Distinct Characters (medium)
Fruits into Baskets (medium)
No-repeat Substring (hard)
Longest Substring with Same Letters after Replacement (hard)
Longest Subarray with Ones after Replacement (hard)

2. Pattern: two points, 双指针类型

经典题目：

Pair with Target Sum (easy)
Remove Duplicates (easy)
Squaring a Sorted Array (easy)
Triplet Sum to Zero (medium)
Triplet Sum Close to Target (medium)
Triplets with Smaller Sum (medium)
Subarrays with Product Less than a Target (medium)
Dutch National Flag Problem (medium)

3. Pattern: Fast & Slow pointers, 快慢指针类型

经典题目：

LinkedList Cycle (easy)
Start of LinkedList Cycle (medium)
Happy Number (medium)
Middle of the LinkedList (easy)

4. Pattern: Merge Intervals, 区间合并类型

经典题目：

Merge Intervals (medium)
Insert Interval (medium)
Intervals Intersection (medium)
Conflicting Appointments (medium)

5. Pattern: Cyclic Sort, 循环排序

经典题目：

Cyclic Sort (easy)
Find the Missing Number (easy)
Find all Missing Numbers (easy)
Find the Duplicate Number (easy)
Find all Duplicate Numbers (easy)

6. Pattern: In-place Reversal of a LinkedList, 链表翻转

经典题目:

Reverse a LinkedList (easy)

Reverse a Sub-list (medium)

Reverse every K-element Sub-list (medium)

7. Pattern: Tree Breadth First Search, 树上的BFS

经典题目:

Binary Tree Level Order Traversal (easy)

Reverse Level Order Traversal (easy)

Zigzag Traversal (medium)

Level Averages in a Binary Tree (easy)

Minimum Depth of a Binary Tree (easy)

Level Order Successor (easy)

Connect Level Order Siblings (medium)

8. Pattern: Tree Depth First Search, 树上的DFS

经典题目:

Binary Tree Path Sum (easy)

All Paths for a Sum (medium)

Sum of Path Numbers (medium)

Path With Given Sequence (medium)

Count Paths for a Sum (medium)

9. Pattern: Two Heaps, 双堆类型

经典题目:

Find the Median of a Number Stream (medium)

Sliding Window Median (hard)

Maximize Capital (hard)

10. Pattern: Subsets, 子集类型, 一般都是使用多重DFS

经典题目:

Subsets (easy)

Subsets With Duplicates (easy)

Permutations (medium)

String Permutations by changing case (medium)

Balanced Parentheses (hard)

Unique Generalized Abbreviations (hard)

11. Pattern: Modified Binary Search, 改造过的二分

经典题目:

Order-agnostic Binary Search (easy)

Ceiling of a Number (medium)

Next Letter (medium)

Number Range (medium)

Search in a Sorted Infinite Array (medium)

Minimum Difference Element (medium)

Bitonic Array Maximum (easy)

12. Pattern: Top 'K' Elements, 前K个系列

经典题目:

Top 'K' Numbers (easy)
Kth Smallest Number (easy)
'K' Closest Points to the Origin (easy)
Connect Ropes (easy)
Top 'K' Frequent Numbers (medium)
Frequency Sort (medium)
Kth Largest Number in a Stream (medium)
'K' Closest Numbers (medium)
Maximum Distinct Elements (medium)
Sum of Elements (medium)
Rearrange String (hard)

13. Pattern: K-way merge, 多路归并

经典题目:

Merge K Sorted Lists (medium)
Kth Smallest Number in M Sorted Lists (Medium)
Kth Smallest Number in a Sorted Matrix (Hard)
Smallest Number Range (Hard)

14. Pattern: 0/1 Knapsack (Dynamic Programming), 0/1背包类型

经典题目:

0/1 Knapsack (medium)
Equal Subset Sum Partition (medium)
Subset Sum (medium)
Minimum Subset Sum Difference (hard)

15. Pattern: Topological Sort (Graph), 拓扑排序类型

经典题目:

Topological Sort (medium)
Tasks Scheduling (medium)
Tasks Scheduling Order (medium)
All Tasks Scheduling Orders (hard)
Alien Dictionary (hard)

大家好好练练这些题目, 面试中遇到高等难度的题目, 应该就能解得不错了

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