

数组与数 Array & Numbers

课程版本 v3.3 主讲 令狐冲

禁止录制与传播视频，否则将追究法律责任和经济赔偿



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- Sorted Array
 - Merge Two Sorted Arrays
 - Intersection of Two Arrays
 - Multiply Two Arrays
 - Median Of Two Sorted Arrays
- Subarray
 - Best Time to Buy and Sell Stocks I, II, III
 - Subarray I, II, III, IV
- Two Pointers
 - Two sum, 3Sum, 4Sum, k Sum, 3Sum Closest
 - Partition Array

令狐师兄带你写代码之

Merge Two Sorted Arrays

<http://www.lintcode.com/problem/merge-two-sorted-arrays>

- 将小数组归并到大数组里
 - <http://www.lintcode.com/problem/merge-sorted-array/>
 - <http://www.jiuzhang.com/solutions/merge-sorted-array/>
- 两个数组的交
 - <http://www.lintcode.com/problem/intersection-of-two-arrays/>
- 数组内积(点乘)
 - Example $[1,3] \cdot [2,4] = 1*2 + 3*4 = 14$
 - Follow up: 两个数组都非常大, 但是其中都包含很多0
 - Example $[1,0,0,0,0 \dots, 0, 2, 0,\dots, 0, 3] \cdot [0,\dots, 0, 4, 0,\dots, 0, 5]$

Median of Two Sorted Arrays

<http://www.lintcode.com/problem/median-of-two-sorted-arrays/>

<http://www.jiuzhang.com/solutions/median-of-two-sorted-arrays/>

Best Time to Buy and Sell Stock vs Maximum Subarray

<http://www.lintcode.com/problem/best-time-to-buy-and-sell-stock/>

<http://www.lintcode.com/problem/maximum-subarray/>

独孤九剑 —— 破掌式

碰到 Subarray 相关的问题，一定要想到 Prefix Sum

Related Questions

- <http://www.lintcode.com/problem/best-time-to-buy-and-sell-stock-ii/>
- <http://www.lintcode.com/problem/best-time-to-buy-and-sell-stock-iii/>
- <http://www.lintcode.com/problem/maximum-subarray-ii/>
- <http://www.lintcode.com/problem/maximum-subarray-iii/>

Take a break

5 minutes

- **Minimum Subarray**
- <http://www.lintcode.com/problem/minimum-subarray/>
- **Maximum Subarray Difference**
- <http://www.lintcode.com/problem/maximum-subarray-difference/>
- **Subarray Sum**
- <http://www.lintcode.com/problem/subarray-sum/>
- <http://www.lintcode.com/problem/subarray-sum-closest/>

令狐师兄带你敲代码之 Two Sum & Two Sum Closest

<http://www.lintcode.com/problem/two-sum/>

<http://www.lintcode.com/problem/two-sum-closest/>

3Sum

<http://www.lintcode.com/problem/3sum/>

<http://www.jiuzhang.com/solutions/3sum/>

3Sum Closest

<http://www.lintcode.com/problem/3sum-closest/>

<http://www.jiuzhang.com/solutions/3sum-closest/>

4Sum

<http://www.lintcode.com/problem/4sum/>

<http://www.jiuzhang.com/solutions/4sum/>

- Two Sum 相关的问题的两种做法
 - Hash Map
 - Sort + Two Pointers
- 学会比较他们的优劣

令狐师兄带你敲代码之 Partition Array

<http://www.lintcode.com/problem/partition-array/>

<http://www.jiuzhang.com/solutions/partition-array/>

Sort Letters by Case

<http://www.lintcode.com/problem/sort-letters-by-case/>

<http://www.jiuzhang.com/solutions/sort-letters-by-case/>

Sort Colors

<http://www.lintcode.com/en/problem/sort-colors/>

<http://www.jiuzhang.com/solutions/sort-colors/>

- **Sort Colors II**
- <http://www.lintcode.com/en/problem/sort-colors-ii/>
- <http://www.jiuzhang.com/solutions/sort-colors-ii/>
- **Interleaving Positive and Negative Numbers**
- <http://www.lintcode.com/problem/interleaving-positive-and-negative-numbers/>
- <http://www.jiuzhang.com/solutions/interleaving-positive-and-negative-integers/>

- Median of Two Sorted Arrays
 - 想不到算法没关系, 但要能理解算法并实现出来
- Subarray
 - Prefix Sum
- Two Sum
 - Hash Map vs Two Pointers
- Partition Array
 - 二分 vs 三分