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九章算法IT求职面试培训 第9章

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Outline

1. Single Number I, II, III
2. Majority Number I, II, III
3. Best Time to Buy and Sale Stock I, II, II
4. Subarray I, II, III, IV
5. 2-Sum, 3-Sum, 4-Sum, k-Sum, 3-Sum Closest
6. Partition Array
7. Quick Questions

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Single Number

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Single Number II

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Single Number III

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Majority Number

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Majority Number II

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Majority Number III

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5 minutes break

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Best Time to Buy and Sell Stock

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Best Time to Buy and Sell Stock II

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Best Time to Buy and Sell Stock III

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Best Time to Buy and Sell Stock IV

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Subarray

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Subarray II

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Subarray III

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Subarray IV

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2-Sum

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3-Sum

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3-Sum Closest

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4-Sum

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k-Sum

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Partition Array

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Sort Letters by Case

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Sort Colors

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Interleaving Negative & Positive numbers

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Quick Questions

- Power(x, n)
  - x^n = (x^(n/2))^2 快速幂 →O(logn)
  - http://www.lintcode.com/en/problem/fast-power/
- Sqrt(x)
  - Magic Number 0x5f3759df
  - http://www.lintcode.com/en/problem/sqrtx/
- Trailing Number of zeros in n!
  - http://www.lintcode.com/en/problem/trailing-zeros/
- O(1) Check Power of 2
  - (x-1) & x == 0 → x是2的某次幂
  - http://www.lintcode.com/problem/o1-check-power-of-2/

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