Leetcode Hanhee Lee

1 General

1.1 Interviewer Considerations

Notes:

- How did the candidate **analyze** the problem?
- Did the candidate miss any special or **edge** cases?
- Did the candidate approach the problem **methodically** and logically?
- Does the candidate have a strong foundation in basic computer science **concepts**?
- Did the candidate produce working code? Did the candidate test the code?
- Is the candidate's code clean and easy to read and maintain?
- Can the candidate **explain** their ideas clearly?

1.2 Steps for Success During the Technical Interview

Summary:

1. Clarify the question

- (a) Understand what the question is asking and gather example inputs and outputs.
- (b) Clarify constraints such as:
 - i. Can numbers be negative or repeated?
 - ii. Are values sorted or do we need to sort them?
 - iii. Can we assume input validity?
- (c) Asking clarifying questions shows communication skills and prevents missteps.

2. Design a solution

- (a) Avoid immediate coding; propose an initial approach and refine it.
- (b) Analyze the algorithm's time and space complexity.
- (c) Consider and address edge cases.
- (d) Think aloud to demonstrate logical reasoning and collaboration.
- (e) Discuss non-optimal ideas to show your thought process.

3. Write your code

- (a) Structure the solution using helper functions.
- (b) Confirm API details when uncertain.
- (c) Use your strongest programming language and full syntax.
- (d) Write complete, working code—not pseudocode.

4. Test your code

- (a) Validate your solution with 1–2 example test cases.
- (b) Walk through each line using inputs.
- (c) Do not assume correctness—prove it through testing.
- (d) Discuss any further optimizations and their trade-offs.

1.3 Common Mistakes to Avoid

Warning:

- 1. Starting to code without clarifying the problem.
- 2. Failing to write or discuss sample inputs and outputs.
- 3. Using pseudocode instead of fully functional code.
- 4. Misunderstanding the problem or optimizing prematurely.

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2 Arrays

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3 Two Pointers

3.1 Slow and Fast Pointers

Algorithm:

1.

3.1.1 Common Problems

Notes:

• Linked list problems

3.2 Front and Back Pointers

Algorithm:

1.

3.2.1 Common Problems

Notes:

- \bullet Two sum
- $\bullet~$ Three sum