

Interviews record

1. Games 24/7 sde1

- Group Anagrams — discuss Time Complexity (TC) and Space Complexity (SC).
- How to manage locking on a resource when two threads try to access it at the same time.

2. Bitgo sde2

- Write a rate limiter to allow a maximum of 10 API calls by a user in 2 seconds; reject the 11th call if exceeded.

3. PhonePe sde1

- Given a list of intervals and another interval, merge overlapping intervals and return the resultant list.
- Implement a randomized function.

4. Adobe smt

1. Given an array of parcel weights and the number of days to deliver them (in order), calculate the minimum truck capacity needed.
2. Course Scheduling problem.

5. DE Shaw smt

1. Rearrange a string so that no two adjacent characters are the same.

2. Java program with two threads (one printing odd numbers and the other printing even numbers) that prints numbers sequentially.

6. Goldman Sachs analyst

1. Given a string, remove repeated characters and append their frequency (e.g., "aaabbccdd" → "a3b2c2d2").
2. Given a directed graph representing a tree, return the root of the largest component. If multiple answers exist, return the root with the smallest value.

7. Super.Money sde2

- Design Kafka.

8. Airtel sde1

- Find the shortest cost to reach from the top-left to the bottom-right of a grid.

9. Nielsen sde1

1. Differences between Java 8 and previous versions.
2. Methods in REST API.
3. How to connect to a database in Spring.
4. Security in Spring Boot.
5. Methods in the `Object` class in Java.
6. SQL joins and their types.

7. Difference between Spring and Spring Boot.
8. Design splitwise

10. Moonfrog sde2

- Don't remember the exact questions (Dynamic Programming related).
- Number pad problem.

11. StockX sde2

- Design LFU (Least Frequently Used) cache.
- Session service design.
- Behavioral questions:
 - Any negative feedback received?
 - How you helped a coworker.
 - Your Strength/weaknesses.
 - Any disagreements and how you resolved them.
 - How do you stay updated?

12. Nielsen(Golang profile)

Asked to code in golang only

1. Banana pile array given find the minimum speed with which she can finish all piles in h hours. She can eat from one pile at any given hour.
2. Minimum length of subarray which has sum>target.

13. DE Shaw round 2

1. Given array of times required by a task and the number of machine
Asked the minimum capacity of the machines to finish the task with given number

of machines. You can only select consecutive tasks for a machine.(binary search solution)

2. Design flight booking
3. Design payment gateway
4. Calculate memory used by a method
5. Calculate time taken by a method
6. Example of normalised and non normalised db

14. DE Shaw round 3

1. Find number of overtakes for given position and velocities of people;(2 times sort and count inversions while sorting second time)
2. Difference in spring and springboot
3. Sql and nosql difference
4. Spring and core java difference
5. Ways of communication between services
6. When choose kafka and when choose rest APIs
7. Indexing disadvantages
8. Dependency injection

15. Tekion

1. Koko banana problem
2. Maximum cars that can be robbed in a circular parking lot. Cannot rob from adjacent parking lots.

16. Oracle

1. Minimum height trees;
2. Minimum arrows required to burst the balloons

17. Oracle

1. Length of palindromic substring when added one character at any place
2. post/put
3. Sql vs nosql
4. How to make post idempotent

18. Oracle

1. Url shortener
2. post/put idempotency
3. Base62
4. Situation where hot fix was needed but also long lasting and robust solution needed to be made

19. Neilson (round 2 golang profile)

1. Design cache where you can get, set and delete key, values. Also add TTL. Also handle concurrency.

20. Adobe

1. Monotonic stack;
2. Acid
3. Choice between mongo and sql