Key Topics: DSA, OOP, DB, Create Schema from given Scenario, Complexity Calculation, SQL related queries, Networking, pointer, array

Problems from glassdoor.
1. What is the difference between stack and queue? [DONE]
2. Which language I'm most familiar with? [DONE]
3. Tell me about yourself.
4. Was this my first interview? [DONE]
5. What are the differences between the access modifiers of java? [DONE]
6.
Ka-123-123
Kha-12-312
Ga-123-123
Gha-13-123
If these are the only valid format of number plates for cars, how would you validate a new number plate?
7. What data structure do you use for a implementing a social network like facebook? [DONE]
8. Difference between tree and graph. [DONE]
9. Coding problem: detecting two different given format of telephone numbers. [DONE]
10. Convert Digit to Binary [DONE]
11. Print a Tree [DONE]++
12. Given a valid string signature, how do you check a string is valid or not?
13. Given a fixed delimiter, you have to split a string into multiple words.
14. How will you make an Elevator system? What are the data structures and functions which will be used?
15. “777-870-4566”, ”7778704566” both are valid us phone numbers. Write a code for validating us numbers. [DONE]
16. What are the differences between abstract and interface in java? [DONE]
17. You want to implement a Set in Java that can store objects of user-defined classes. How can you achieve that?
18. Why you are interested to join therap
19. Random integer in range l,r without rand function. [DONE]
20. Sum of digit until becoming 1 digit number. [DONE]
21. Concat integers to make the largest integer.
22. Check which version is latest
23. find the height of a binary tree [DONE]
24. Bug in a Java code.
25. Reverse a linked list [DONE]
26. Every integer occurs twice except an integer find that integer [DONE]
27. Write a recursive function that prints a string backwards. [DONE]

#Coding Test

1. Insert in BST
2. Reverse a Linked List without using extra linked list
3. Reverse a string using recusion
4. Delete from a linked list

DB - W3School (Schema Design + Query + Normalization)
Networking - TCP, UDP, OSI Model, TCP/IP Model, DNS, FTP, SMTP, Ipv4, IPv6, SSL etc. from javapoint.com
OS- Thread, Process, CPU Scheduling, Memory Sharing of thread/process, Deadlock (Avoidation, Prevention, Detection (Basics)), Semaphore, Difference between (Multithreading vs Parallel Programming, MultiProcessing) etc from javapoint.net
OOP - Java & C++
DSA - Linked List, Tree (Traversal), BST, Stack, Queue, Array, BFS, DFS, Recursion, Sorting (All), Searching (Binary Search)

1. Insert into a sorted linked list
2. Reverse a linked list
3. Find middle point in a linked list
4. Check Pallindrome in a linked list
5. Insert, Search into BST
6. Given a pattern. Check a string is valid according to the pattern. (Regex is not allowed)

Example:
Pattern:
756-1234-980
7561234980
These are the valid phone numbers. Write a code to check wether an arbitrary string is a valid phone number.

7. Given an array of string. Find a specific string from the array in O(1)
Hint: use map/hashing

8. Given an array of integer and a number x. Find, by adding which two integers from the array form x.

9. Find max value from a Binary Tree.
10. Find max value from a BST
11. Reverse a string using recursion.
12. Find max sum value from a BST

Ka-42-6789
Kha-34-1234

Ga-57-1078
Gha-56-1234

These are the valid licence pate number pattern. Check an arbitrary string is a valid kicence no or not.