=================Citi corp (8.5 Years of exp)===================================

1. What is garbage collection in Java?
2. What would be your approach if you had to do the garbage collection manually?
3. What is composition and aggregation and association?
4. Can you explain the Java memory model?
5. What is meta space?
6. What is default method? And what’s the relevance?
7. Difference between Map and FlatMap?
8. What is parallel stream in Java 8?
9. How do you authenticate the APIs in Spring?
10. What transaction management you are using in your project?
11. What’s the advantage of using JPA?
12. How are you using many to many and one to many transactions in your project?
13. How to manage transactions in microservices? Like two phase commit
14. How do you design an online digital signature application portal?
15. Write a program to check if a number is an Armstrong number
16. Explain CAP theorem in microservices
17. Explain SAGA design pattern
18. What is Orchestration and Choreography?
19. @transactional annotation in spring boot
20. Have you ever come across any issue in your program
21. Any idea about thread dump/Heap dump?
22. How many ways are there to create the thread?

=============================Citi Bank===================================

1. How you are handling authentication and authorization in your project?
2. Have you worked on OAUTH?
3. Can I use Employee object as key in HashMap?
4. How to write equals and hashcode methods?
5. Is there any other limitations when using custom object as a key in HashMap apart from equals and HashCode methods? Or What are the best practices?
6. How to exclude serialization for a particular variable?
7. Synchronized vs concurrent HashMap?
8. Sleep vs wait method?
9. How to make a specific thread to be executed at last? Executor Framework?
10. How to sort employees based on age and salary?
11. Can you give me an example of a terminal operation in Streams?
12. What are the design patterns have you used?
13. Example where we can use Abstract Factory design pattern?
14. What is a dispatcher servlet?
15. Which design pattern does dispatcher servlet follow?
16. How does servlet handle multiple requests simultaneously?
17. Normal servlet vs dispatcher servlet?
18. Bean life cycle in Spring?
19. When will the bean get destroyed?
20. How do you resolve memory leak in Java?
21. How to identify a code which may cause memory leak? Best practices to avoid memory leak?
22. What is left outer join?

================================Nagarro================================

1. How do you choose a Collections class appropriate to the problem?
2. Explain about concurrent HashMap.
3. Explain Substring() of String class.
4. How can Substring create memory leak?
5. How does @RequestMaping works?
6. Write a query to find duplicate records in a table based on particular columns
7. Why indexing is important in database?
8. What is idempotent?
9. What parameters can be passed in HTTP header?
10. How do you implement role-based access control in Spring?
11. How do you maintain environment specific properties in Spring?
12. How to enable synchronous/asynchronous communications between microservices?
13. How to know if a service is running or not?
14. How to manage transactions across multiple services?
15. How to handle failures in transactions which span across multiple services?