1. Can you explain the difference between an abstract class and an interface in Java?
2. What is dependency injection, and how does it work in Spring Framework?
3. Can you explain the SOLID principles of object-oriented design, and how they relate to Java?
4. What are the different types of design patterns, and can you give an example of each?
5. How would you implement a thread-safe singleton in Java?
6. How do you optimize performance in Java applications, and what tools do you use for profiling and debugging?
7. Can you explain the differences between JDBC and Hibernate, and when would you choose one over the other?
8. Can you explain the concept of garbage collection in Java, and how does it work?
9. Can you explain the difference between a checked and an unchecked exception in Java?
10. Can you explain the concept of class loading in Java, and how does it work?
11. What is your experience with Java and related technologies?
12. What design patterns do you frequently use in your Java applications?
13. Can you explain the difference between an abstract class and an interface in Java?
14. Have you worked with any Java frameworks such as Spring, Hibernate or Struts? If so, what was your experience with them?
15. What is the difference between the JRE and the JDK?
16. How do you manage dependencies in your Java projects?
17. How do you ensure the security of your Java applications?
18. Can you explain the differences between the different types of garbage collectors in Java?
19. How do you handle concurrency in Java applications?
20. Have you used any Java profiling tools? If so, which ones and how did you use them?
21. How do you ensure high availability and scalability in your Java applications?
22. Can you describe your experience with performance tuning of Java applications?
23. How do you stay up to date with new developments in the Java ecosystem?
24. Can you explain the concept of inversion of control and how it is used in Java frameworks?
25. Have you worked with microservices architecture? If so, what are some challenges you have faced and how did you overcome them?
26. Can you explain the differences between SOAP and RESTful web services in Java?
27. How do you ensure the quality of code in your Java applications?
28. Have you worked with any NoSQL databases such as MongoDB or Cassandra in Java applications? If so, what was your experience with them?
29. What is your experience with unit testing in Java applications?
30. Can you describe your experience with continuous integration and continuous delivery (CI/CD) pipelines for Java applications?