

## Barclays - Backend Developer

### Interview Process

- Online assessment
- Technical Interview
- HR

### Interview Questions

1. How is data stored? How does the garbage collector work? When does it get used?
2. What's the difference between an abstract class and a class?
3. How do you use reflection? What are the advantages of reflection? What are the disadvantages of reflection?
4. What does hashCode() do?
5. If I implement cloneable, what methods should I override? Why would I want to implement cloneable?
6. What's the difference between an Array and an ArrayList?
7. How do you use threads in Java?
8. How can you implement a semaphore?
9. How is inheritance different in C++ and Java?
10. What is Java?
11. What do you mean by Constructor?
12. What are the features of Java?
13. How does Java enable high performance?
14. What do you understand by Java IDEs?
15. What is an Object?
16. Could you explain the OOPs concepts?
17. Please explain Method Overriding in Java.
18. What do you mean by Overloading?
19. What is Set in Java? Also, explain its types in Java Collections.
20. Please explain the various types of garbage collectors in Java.
21. How will you differentiate HashMap from HashTable?
22. What do you mean by Collections in Java? What are the constituents of Collections in Java?
23. Please explain Map and their types in Java.
24. What do you mean by Priority Queue in Java?
25. How do you make a thread in Java? Give examples.