

Round 2: Technical Interview GlobalLogic

What to Expect in a GlobalLogic Java Interview

1. Core Java Concepts

- **OOP fundamentals:** Inheritance, abstraction, interfaces vs abstract classes
- **Exception hierarchy:** Checked vs unchecked, custom exceptions
- **JVM internals:** Memory regions (heap, stack), garbage collection, class loading
- **String immutability,** final, finally, finalize
- **Collections & Streams:** ArrayList vs LinkedList, internal workings of HashMap/HashSet, functional operations with map, flatMap, filter
- **Multi-threading:** Synchronization, ExecutorService, Callable, CompletableFuture
- **Design Patterns:** Singleton (and how to break it), Factory, Observer, Abstract Factory, Circuit Breaker

These are foundational—understanding their principles and usage is critical ([Glassdoor](#), [Glassdoor](#)).

2. Spring & Full Stack Related Topics

- **Spring/Spring Boot essentials:** IoC, Bean scopes, Dependency Injection, annotation-driven config (@Component, @Service)
- **Microservices & REST:** Architecture patterns, REST API design, error handling (PUT vs PATCH)
- **Serialization, Cloning, and Immutable Classes**
- **Environment configuration, profiles, CI/CD, testing practices** ([Glassdoor](#), [Glassdoor](#)).

3. Database / SQL

- Writing and interpreting **SQL queries and joins**
- **Fill-in-the-blank PostgreSQL** and **multiple-choice questions** often test query logic and syntax (especially if mentioned in test format)
- Handling constraints, aggregate functions, and indexing ([Glassdoor](#)).

4. Coding & Algorithm Skills

- **String and array manipulation:** e.g., first non-repeating character, character frequency count
- **Hash-based solutions,** duplicates removal, prime generation
- **Problem-solving with streams and collections** in Java 8/11 ([Glassdoor](#), [Medium](#))
- **Practical coding tasks** like palindrome detection, immutable class design (backend logic) ([Glassdoor](#), [Glassdoor](#)).

5. Communication & Writing

- Expect a section that evaluates **professional communication**, such as drafting an email or application — this tests clarity and written skills.

Sample Question Breakdown

Topic Area	Example Questions
Core Java	Explain hashCode() vs equals(), collection internals, Java memory model
Spring / Microservices	Design patterns, DI, REST API error strategies, scaling microservices
SQL / Databases	Write an SQL query (e.g., aggregate or join), fill in blanks in queries
Coding Practice	Find non-repeating char, implement Singleton, solve string/array algorithm
Communication	Draft a professional email or project summary