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# Java Interview Notes: 700 Java Interview Questions Answered



## Synopsis

Java Interview Notes incorporate most critical topics discussed during Java technical interview round, along with the interview questions for each concept. This book also contains lots of code snippets and figures to explain matters. Concepts in the book are organized in very precise and concise manner, in small chapters and are to the point.

**CONTENT:**

- Java Fundamentals:** Java Program Anatomy, Java Program and JVM, Data Types, Naming Convention, Object class, Access Modifiers, static, final, initialization block, finally(), finalize(), Widening vs Narrowing Conversion, getters and setters, varargs vs object array, default interface methods, static interface method, Annotations, Preferences, Pass by value or reference, Object Oriented Programming.
- Polymorphism:** Parametric Polymorphism, Subtype Polymorphism, Overriding, @Override, Overloading, Abstraction, Inheritance, Composition, Fundamental Design Concepts : DI vs IoC, Service Locator, Diamond Problem, Programming to Interface, Abstract class vs Interface, Internationalization and Localization, Immutable Objects, Cloning, Data Types.
- String:** NaN, Enum, Set, Comparing Data Types, Float comparison, String comparison, Enum comparison, enum vs public static int field, Wrapper Classes, Auto boxing and Auto unboxing, BigInteger and BigDecimal.
- Strings:** String, Immutability, String Literal vs Object, String Interning, String Pool Memory Management, Immutability - Security issue, Circumvent String immutability, StringBuffer vs StringBuilder, Unicode.
- Inner Classes:** Inner Classes, Static Member, Nested Class, Local Inner Class, Non-Static Nested Class, Anonymous Inner Class.
- Functional Programming:** Lambda Expression, Functional Interface, Pure Functions, Fluent Interface, Generics : Generics, Generics-Type Wildcards, Generics - Method, Java Generics vs Java Array, Generics - Type Erasure, Co-variance, Contra-variance, Co-variance vs Contra-variance.
- Collections:** Collections : Collection design aspects, Collection Fundamentals, Collection Interfaces, Collection Types, Set, List, Queue, Map Algorithms, Comparable vs Comparator, hashCode() and equals(), HashTable vs HashMap, Synchronized vs Concurrent Collections, Iterating over collections, fail-fast vs fail-safe, Error and Exception: Exception, Checked vs Unchecked vs Error, Exception Handling, Best Practice, `try-with-resource`.
- Threading:** Threading : Threading Terms, Thread Lifecycle, Thread Termination, Runnable vs Thread, Runnable vs Callable, Daemon Thread, Race Condition and Immutable object, Thread Pool, Synchronization : Concurrent vs Parallel vs Asynchronous Thread Synchronization, Synchronized method vs Synchronized block, Conditional Synchronization, Volatile, static vs volatile vs synchronized, ThreadLocal Storage, `wait()` vs `sleep()`, Joining Thread, Atomic Classes, Lock, ReadWriteLock, Synchronizers, Barrier, Semaphore, Phaser, Exchanger, Latch.
- Executor Framework:** Executor Service, Fork-Join Framework, Reflection : Purpose of

reflection Drawbacks of Reflection Data Interchange:JSON Memory Management:Stack vs Heap  
Heap fragmentation Object Serialization Garbage Collection Memory ManagementWeak vs Soft vs  
Phantom ReferenceUnit Testing:Why unit testing?Unit vs Integration vs Regression vs  
ValidationTesting private membersMocking and Mock ObjectsJava Tools:GitMavenAntJenkins

## **Book Information**

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## **Customer Reviews**

This is a very well written book that not only addresses topics that are covered during a Java technical interview but it also has a range of interview questions for each topic. It captures concepts on a wide range of topics: covering fundamentals, OOPs, generics, collections, threading, memory management, various design and Java language concepts, in a very precise manner. Each chapter contains a series of questions for your practice. This book is really very comprehensive. It also contains lots of code snippets and figures to explain the concept. Overall a great book to prepare you for technical interviews. Happy to make this investment.

Wow, is this guide book ever comprehensive about Java as it relates to the technical interview round! Honestly, if you want to make sure that you are mentally prepared to answer any and all questions in a thoughtful, intelligent manner that is sure to impress, then you need to peruse this

book. You might not need all the information presented, as it is pretty darned extensive. However, if you go over the sections you are not sure about, you can go into your technical interview feeling confident. Actually, this is also a good refresher on Java if you only need that as well.

This book is very useful!!!! Thank you so much!!!!

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