

## Interview Questions:-

Shallow copy deep copy

Custom immutable class

Types of reference

Solid principle

Find 2nd max salary one more way

Rest api put vs patch

Maven vs gradle

@exception handling in spring boot

Aggregation Vs composition

Unit testing in spring springboot

Hibernate

Agile methodology

Design patterns any 3 r 4( include Singleton and factory method)

In Db u need to learn hashing, normalisation very important.... Nd stored procedures

@profile annotation ennanu pathuka

## Intellect(1st round)

- ✓ Optional isPresent and ifPresent
- ✓ How to create empty optional value.
- ✓ Streams- how to print size of an array using stream.
- ✓ Stream vs parallel stream

(<https://www.logicbig.com/tutorials/core-java-tutorial/java-util-stream/sequential-vs-parallel.html>)

- ✓ Join vs Fork Framework
- ✓ How stream sequence is

executed(<https://beginnersbook.com/2017/10/java-8-stream-tutorial/>)

- ✓ Internal implementation of optional - how null has been handled

(<https://dzone.com/articles/java-an-optional-implementation-of-optional>)

- Marker Interface -> predefined of marker interface
- Concurrent Hash map -> Internal Implementation
- Threads - if we start 2 threads what exception will come.
- ConcurrentModification exception - when it will come and how to over come
- Executors
- Transient

keyword(<https://www.tutorialspoint.com/difference-between-volatile-and-transient-in-java>)

- volatile keyword(<http://tutorials.jenkov.com/java-concurrency/volatile.html>)
- Serialisation and deserialisation
- Purpose of doing serialisation and deserialisation
- Spring vs SpringBoot advantages and disadvantages
- @Controller and @RestController
- What is front controller?(Dispatcher Servlet)
- Hash map vs Hash table
- Hash code -> how it is calculated

- How deadlock occurred? how to prevent deadlock? how to handle deadlock?
- Synchronisation
- Interface - default and static methods
- Idempotent methods and what is idempotent
- Purpose of POST method's
- Messaging Techniques - Kafka, JMS(Important)
- sleep vs wait
- why concurrent hash map doesn't throw concurrent modification exception

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### **Flatrions(Vj)**

- Streams & Types Of Stream
- Exception Handling
- Interface vs abstract
- Polymorphism
- sql
- basics of js(closure)
- Dom manipulation
- Spring annotations
- producer and

consumer(<https://howtodoinjava.com/java/multi-threading/producer-consumer-problem-using-blockingqueue/>)

### **Flatrions(Me Second Round) ->Interviewer Bikash**

- Rest API Template(From one service to another service)
- Except Handling in run time
- JTA(Java Transaction API)
- Print list of count in a list of strings in java
- reverse a string word in the same order using streams
- @Controller vs @RestController
- Hashmap vs hash table vs ConcurrentHashMap
- Why iterations are not preferred with concurrent hashmap
- Sort map value ascending order using streams.(don't create a copy map for that)
- Two ways to create thread's and which is the best one
- Inheritance Program base with derived methods example

### **Accolite(VJ)**

- Cyclic barrier
- Count down latch
- Excutor service

- Fail fast vs fail safe
- Internal implementation of map
- Binary tree vs bst
- Binary search implementation
- What time complexity of searching element in array vs bst
- Spring ioc container
- Advantages of spring
- @component vs @controller
- Callable future
- Prgrm : binary search da
- From the client oru api dhan call pannanum ...andha api la 10 differnt api call

pannnaum... response return pannanum..

- Map implementation
- Linked hash map implementation
- Why it maintains order
- Tree map la null possible or not
- Why we went for spring
- 2 program value sort in map
- Zero's and ones sort
- Anotations
- Application context and bean factory

### **Accolite(SP) -> Interviewer(Mugesh)**

- Streams vs collections
- If we override equal method we should override hashCode method

also?(<https://stackoverflow.com/questions/2265503/why-do-i-need-to-override-the-equals-and-hashcode-methods-in-java>)

- write equals method

implementation(<https://howtodoinjava.com/java/basics/java-hashcode-equals-methods/>)

- Internal implementation of hash code and equals method
- cohesion and coupling(<https://www.decodejava.com/coupling-cohesion-java.htm>)
- how to achieve loosely coupling for our java class.
- mvn clean vs mvn deploy
- singleton pattern(<https://springframework.guru/gang-of-four-design-patterns/>)
- things need to take care while serialisation as well as deserialisation
- abstract factory pattern
- AOP Concepts - advice to target class, interceptors
- Is RestApi secure and how we can make it secure.
- Garbage collections in Java 8
- Beam life cycle and how will you customise the life cycle

### **Intellect (2nd Round)**

- Oops concept
- Static variable vs non static variable
- IOC
- Final keyword(class,variable,method)
- Functional interface
- Garbage collections
- Interface
- In cache memory (hibernate)
- Mark & Sweep

Algorithm(<https://www.geeksforgeeks.org/mark-and-sweep-garbage-collection-algorithm/>)

### **Tech Cheff (Paypal) ( Interviewer - Iqbal)**

- Difference in Hash map in java 7 & java 8
- Is java pass by value or pass by reference
- bean scopes
- dependency injection
- auto wired
- program for the duplicate element should be in sequence order for a given string

### **Accolite (2nd round Mine) Interviewer - Karthikeyan**

- sort the map value without using stream
- how to put null in tree map
- session vs session factory
- @service in place of @controller
- linked hash map
- can we put null in tree map
- @autowired
- Bean scope
- sort zero's and one's

### **Pramathi**

- Primary key vs unique key
- String word reverse program without splitting
- Encapsulation
- var char vs var char to
- end point for http methods
- Implement stack using queue

HashMap is non-synchronized. This means if it's used in multithread environment then more than one thread can access and process the HashMap simultaneously.

## Java Interview Questions

- ✓ Java 8 Lambda expressions
- ✓ Features of Java 8
  - Map Internal working
  - Microservices Connection
  - Microservices Deployment
  - Some questions on streams in java
  - OOPS Concepts (Inheritance, Polymorphism, etc)
  - Foreign key, primary key sql query scenarios
  - how you will handle exceptions
  - program of 1st occurrence of string
  - spring boot annotations
  - Rest api methods
  - spring mvc architecture
  - which db you have used in spring boot
  - how you will link db in spring boot
  - what are the ORM frameworks do you know
  - Http Methods
  - Difference between REST and SOAP
  - About the projects you have worked
  - statements
  - jdbc
  - comparable and comparator
  - what is processor
  - what is server
  - how threads can connect each other
  - sdlc lifecycle
  - agile methodologies
  - how to wait a thread for few minutes
  - how the screen loads (backend process)
  - how will u configure the jar files
  - rest template
  - tell in detail about csrf attacks
  - web client
  - Hystrix
  - circuit breaker
  - program to sort the characters of the string
  - string builder and string buffer
  - why string is immutable

- how java is a platform independent language
- is java top down or bottom up language
- BufferedReader and File Reader Difference
- Difference between array list and linked list