Java Interview Questions (Keep updated your questions after Interview..Please don't remove any questions)

 Fujitsu: L1

1. Volatile keyword
2. How to use external RESTful services URL
3. @ResponsEntity and @ResponseBody
3. Association in JPA
4. DROP, DELETE, Truncate => DIFF
5. ApplicationContex and IOC => Diff
6. Generics in JAVA
7. Collision HashMAP
8. Which cases in your project do you override the hashcode and equals methods?
9. prototype design pattern
10. Spring Batch
11. What is the difference in OOPs and AOP

Accenture : L1

1. What is your role in the project?
2. Cloud Technology--> Azure Basics
3. Which spring modules have you worked on?
4. Why is String immutable?
5. Which is efficient from String literal and String object with (using new), Why?
6. ConncurentHasmap
7. Runnable vs Callable
8. How to reverse Arraylist
9. Unique values from ArrayList
10. How to make ArrayList readonly (which method is used to make ArrayList readonly)
11. What is ThreadPool in java?
12. RequestParam,PathVeriable,QueryParam how it works
13. How to Identify request from url is what type
14. N+1 problem in hibernate.
15. What is caching?
16. What Lazy loading in Hibernate
17. Spring boot and Spring Framework difference?
18. Actuator in detail..
19. Which actuator was used? How are you used ?and for what purpose?
20. What is purpose of actuator in Spring Boot
21. How can we prevent/disable auto configuration for specific modules in Spring Boot?
22. How to exclude the default server and use Jetty in Spring Boot?

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Oracle:(TechnoManagerial round) L1
1. Outline of your project and its services
2. Explain service on which you work upon
3. How SEPA payment files getting processed(upload,parse,validation(business rules))
4. How validation is taken place with respect to business rules
5. What will be batch status if any transaction failed/valid in parser/validation
6. Which component is used to validate payments (ex.drool engine)
7. How is your system getting the files?
8. Where payment data gets persisted after parsing? Which database and tables?
9. How system sending outbound payments,How mapping takes place?
10. Which MQ and integration implemented in you system
11. Which type of message are you sending over the queue?
12. How you have configured MQ in your application
13. Is there any incoming queue for payment statuses or How are you getting payment statuses once they get processed in another system?
14. Team size?Have you worked as team lead?How much time you worked as team lead?
15. Recently faced any difficulties? Explain it?
16. Any work you did on performance issues if yes then give me some background?
17. What is monolithic and microservice architecture ?
18. Any challenges you faced in microservice development?
19. If one service does not get response from another service but this service needs to continue the work, how will handle this situation (dummy service).
20. Are you aware of Netflix connectors
21. Which life cycle methodologies used.
22. What you have used for Source code management
23. Any experience on DevOps?
24. What is API Gateway?
25. What is a logging mechanism for debugging purposes?
26. What is @ComponentScan
27. What if Bean class is not under scope of @ComponentScan
28. Have you worked on Zuul?
29. What is main difference in SOAP and REST
30. How to consume REST/SOAP web service in REST
31. Which Java you have used Oracle or other in your project?
32. Any handson on memory issues like OutOfMemory error?
33. What is @NamedQuery
34. Programs on Exceptions handling and like int a=5/10 <-output
35. Reason for change?
36. Why Oracle?

Java Interview Questions

Xorient: (L1)
1. Which java version do you have used?
2. In java8, which feature you have used in your project.
3. What is Lambda Expression, Why do we need that?
4. What is difference between function and lambda expression
5. What is Functional interface and why do we need it ?
6. Multiple methods possible in functional interface?
7. What are default and static methods and why do we need?
8. What would happen if one class implementing two interfaces has the same default method?
9. What is a stream? Why do we need it?
10. One arraylist having student object list, write a java8 code to print student names from list
11. Write a program to get occurrences from a String list of names, like abc-2, xyz-2.
12. Which collection is used in your project
13. Where do you use ConcurrentHashMap
14. What is the difference between HashMap and ConcurrentHashMap?
15. If multiple readers then how they will access ConcurrentHashMap.
16. How ArrayList will work internally if we put an element in the middle of the arraylist.
17. What is HashSet ? How does it internally work?
18. Difference between HashMap and HashTable
19. What is difference compile time and runtime exceptions
20. What will happen if we throw an Error object from try ?
21. What is static synchronization?
22. How do you identify synchronisation which will put locks on objects and class and when we need to implement it?
23. What is ThreadPool? Why do we need it?
24. What are the different ways for creation of thread? Which one is more efficient ?
25. Which framework is used for microservice?
26. Flow of creation for microservice (Design and Implementation)
27. What you have used to connect to database (Spring Data/JPA/JdbcTemplate/Hibernate)
28. How you will connect to two database connections from Spring Boot Application, How you will configure ?
29. Which all annotation you have used in application.
30. How can we Inject beans with specific implementation out of multiple implementations, which annotation can be used?
31. Where we can use @Qualifier annotation, on which level?
32. What is the difference between @Autowired and @Inject.
33. What are the different scopes of beans?
34. If we are going to reinitialize beans again after autowiring then what will happen ?
35. Why do we need Eureka Service Discovery in Microservice Architecture? Where can we do configuration and code?
36. What is the importance of load balancing in Microservice ?

Java Interview Questions

37. What is an API gateway ?

LTI-Round 1:
1. What is singleton class?How can we make any class as singleton
2. Different between HashSet and Hashtable
3. Can we have duplicate keys in Hashmap?
4. What happens if we add the same key in the hashmap? (Internal working of Hashmap)
5. What happens if we add an 11th element in default Array.
6. I have an Arraylist with a String type. I added the 1st 2 elements as String ("a" and "b") and the 3rd element as Integer(Ex. 7). Print the Array.
7. What will be the output.(code was given and asked output)
8. What is BeforeClass annotation? What does AssertEquals do?
9. JPA: how can we use dynamic query in JPA
10. Can I use return statements in Catch? Why do we have to use finally and Can I use a return statement in finally.
11. What is serialization ? Is it necessary to have serialization in every project?
12. Jenkins: If I want to change the configuration in Jenkins then how can I change?
13. If I have bulk data processing from the database then how can I handle that?Which collection I can Use so performance will be good?
14. Did you face outOfMemory error in your project and how you fixed this error
15. SonarQube -> what are the repeated issues you faced in Sonarqube and how you solved those.

LTI-Round 2:
1. Explain OOPS concept
2. What is static Polymorphism and dynamic polymorphism?
3. Hibernate: Explain Transaction Management
4. Explain java 8 features
5. If you have a list of Employees and few employees have the same name. I want to remove duplicate employees. Could you please write the code in java 8.
6. A program for exception handling in parent and child classes
7. Hibernate: Different between save and update methods
8. Which annotations are used and explain them?
9. What are actuators? What purposes does it use?
10. Different between PutMapping and PatchMapping
11. We used PutMapping and we have passed one null object
12. Exception handling in REST API
13. Different between @RequestParam and @PathVariable
14. What is the Bean Life cycle? What are the interfaces and steps?
15. Internal Working of Hashmap.
16. Explain Immutable class ? Can we create our own immutable class?

17. If in an immutable class we have reference to another class? how it will working
18. Ex. If the Employee class is having Address and Address is another class with 2 properties. here we can make Employee as immutable but Address can be mutable
19. What are the ways to break the singleton class
20. What are the drawbacks of java if we compare java with other languages?
21. Explain the serialization? What are the ways to implement the serialization?
22. findFirst() and findAny() method in stream methods
23. We add @EnableAutoConfiguration in Springboot so how @autoConfiguration internally works.

Inspirisys Solutions Limited (TR 1)

Program:
String Reverse
Fibonacci Series
Find employee greater than 30 age using java 8
Find IT department count java 8

Theory Questions
1) Diff Intermediate and terminal functions
2) Java 8 Feature
3) Can you override the Final method ??
4) Diff RequestPram and PathVariable
5) Kafaka Use
6) What is the requestDispatcher ??
7) What is use of Spring Boot;
8) @PostConstruct Means
9) Dynamic dispatcher means ?
10) Overriding Means ?
11) SNS and SQS
12) Scope spring Boot ??
13)Diff String ,StringBuffer, StringBuilder
14) How to create an Immutable Class.

Alimetrik/Capita/Synechron

Synchronous and Asynchronous communication in microservices
How to configure the API Gateway?
How to configure Actuator?
How to configure Service Discovery?
How to configure Circuit breaker?

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How to configure Config Server?

Runnable vs callable ?Future Objects?

What is method reference? How will you be right?

Why Functional interface and default method introduced?

Write a program to create deadlocks and solve it?

What is difference between JPA CRUD and JPA Repository

Git Commands

Docker commands

How can we use multiple profiles?

Who converts JSON and How?

What is Devtool?

How can we use a profile?

Use of Refresh actuator end point?

How to Encode Response:

Barclays : L1

Application flow from development to deployment. Tools used ?

What is used for the code coverage?

How do you make sure to avoid HP fortify errors while developing code?

How do you handle errors in Stored procedure?

What Spring Boot provides different application server containers?

Difference between Tomcat and Jetty.

Have you configured CICD pipeline?

How to make a class immutable?

Default scope of spring bean?

Where do you use collection in your project ?

Default Size of ArrayList.

Is Hashmap expandable or not.

Difference between ConcurrentHashMap and Hashtable

DO you use multithreading concept in your project ?

Fetch Type in Hibernate.

Cascade Type

What happens to the next fetch in case of lazy loading?

Have u faced any memory issues while migrating your application to java 8?

How to implement Caching ?

What is the maximum memory cache can have ?

Prototype Design Pattern

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Bank Of America (L1)
1) Java 8- Function Interface Means ??
2) Predicate inside method name ?
3) Diff Hashet and HashMap
4) String and String Buffer
6) DDL Query
7) Transaction Propagation
8) String Container.
9) Diff Hibernate and JPA
10) Spring @Required ?

Bank Of America (L2)
1)Project Architecture
2)Kafka
3)Diff Monolithic and Microservice
4)Transaction type-propagation
5)Transaction isolation
6)Volatile keyword
7)Diff Hashset and HashMap
8)Aws
9)Diff RestController and Controller
10)Http Methods
11)Layer of spring boot application
12)Use of JPA
13)Database level transaction
14)Spring Boot Use
15)String Q&A
String s1="nana";
String s2="bhingare";
String s3=s1+s2;

System.out.println(s1.concat(s2));
System.out.println(s1+s2);

StringBuffer stringBuffer1 = new StringBuffer("Prasad");
StringBuffer stringBuffer2 = new StringBuffer("Goutham");
System.out.println(stringBuffer1.append(stringBuffer2));

System.out.println(s3);
String s;
System.out.println(s);

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```
Object x[] = new String[3];
x[0]=new Integer(0);

System.out.println(x[0]);
```

CGI(L1)
1)OOPs Concept
2)Abstraction
3)Abstraction,Interface
4)Solid principle
5)Transient Keyword
6)Volatile
7)try without catch or with finally
8)Java 8
9) SOrt arrayList
10)How to maintain insertion order and remove duplicate in Collection
11)Spring Boot bean creation and applicationcontext
12)How to resolve Circular dependency problem
13)Stater in spring Boot
14)RestContoller
15)RequestParam and Pathvariable
16)Http Methods In rest api
17)Use of Option Method in Http
18)Heap and Stack
19)Can we set object to as key to Hashmap
20)Use and Way Generic In Collection