Write a query to get the required data regarding employees?

ANS1->
You can use & modify below query - select e.ename, dep.loc from emp e, (select d.deptno, d.dname, d.loc from dept d, (select deptno dno, count(*) ct from emp group by deptno order by deptno desc) dn where rownum = 1 and dn.dno = d.deptno) dep where e.deptno = dep.deptno order by e.ename;

ANS2->
I think query will be like given below. Check or change a bit for your requirements. select EMP.ENAME, lc.LOCNAME from employee emp, company org, location lc where emp.cID = ORG.CID and org.locID = lc.locID and lc.locID in (select place.locID from (select loc.locID, count(*) ct from employee e, company c, location loc where e.cID = c.cID and c.locID = loc.locID group by loc.locID order by ct desc) place where rownum = 1); Enjoy :)

Q.Input is a string like "AAAAABBCCAA" and it should print "5A2B2C2A". 5 being the continuous number of occurance for character 'A'. Same is with other characters also.

ANS1->
let string:String = "AAAAABBBVVVCVCAA" let characters = Array(string) var counter:Int = 1 var newArray:[String] = [String]() let lastCount = characters.count - 1 for count in 0...(characters.count - 2) { if characters[count] == characters[count + 1] { counter = counter + 1; }else { newArray.append("\(counter)\(characters[count])") counter = 1 } if lastCount == count + 1 { newArray.append("\(counter)\(characters[count])") } } print(newArray)

ANS2->
public static void main(String[] args) { String s = "AAAAAAAAAAAAAAAAAABBBBBBBBBBBBBBCC"; Set set = new HashSet(); char b = 0; int count = 1; String newString = ""; for (int i = 0; i 0) { b = s.charAt(i - 1); } char c = s.charAt(i); if (!set.add(c)) { count++; } else { if (b != 0) { newString = newString + b + count; count = 1; } } } newString = newString + b + count; System.out.println(newString); }

ANS3->
public static void main(String[] args) { String s = "AAAAAAAAAAAAAAAAAABBBBBBBBBBBBBBCC"; Set set = new HashSet(); char b = 0; int count = 1; String newString = ""; for (int i = 0; i 0) { b = s.charAt(i - 1); } char c = s.charAt(i); if (!set.add(c)) { count++; } else { if (b != 0) { newString = newString + b + count; count = 1; } } } newString = newString + b + count; System.out.println(newString); }

How hashmap works internally, how to find hash collission is occured.
Depends on many factors , implementing better hash code and loadfactor.

Difference between array list and linked list.

find the smallest number from sorted array has been rotated.

Rotate an array by K times .

Coin change challenge DP problem.

Find the longest subsequence in string that ONLY contains given character from pattern exp : pattern - abcd string - weqojfdaladdccaacddgero o/p : addccaacdd as this only contain abcd.

Check if given Tree is BST

Find two elements with given sum in BST- expected answer in O(n) time ans O(1) space complexity.

Java OOPS Singleton, Synchronized and Puzzles.

Convert BST to DLL (sorted), and find the pair in linear time.

Truth table for 4 variable. HashMap in Java

Internal implementation of HashMap?

Q. find a loop in linked and write a code for "whether a BT is BST?". Algos for matrix manipulation...

Loop in Linked list: take two pointers one running in twice the speed as the other. If at any point they are equal it means there is loop in linked list. BT as BST: Iterate BT in in order fashion and see if the output is in ascending order.

Q. What is thread, what are the ways to start one and where to put your logic.

Q.How hashcode and equals used in get, put, remove of HashMap? Design and code connection pool Deadlock and thread related questions ?

Q.Find the number in aaray which is closest to zero

Q.Find middle of a link list

Q.What is lambda expression

Q.How hashmap internally works, followed by counter questions on why hashcode is required, user define key in hashmap

Q.Spring how loose coupling achieved

Q.WAP to return unique permutations of a String as a List.

Q.Explain about Singleton pattern, OOPS concepts, design principles, collections, multi-threading?

Q.find anagrams

Q.Difference between Spring MVC & SpringBoot

Q.The assignment was related to create a service which will have 1. Login functionally and it will create a token. you can use jwt. 2. Login user can create a article but needs to validate the token which assures that user is valid. 3. Any user can see all the articles.

Q.1) Find missing number in an array. Ex- 1,2,3,5. "4" is missing here
  (n(n+1)/2)-Sum of all elements
Q.What is JDK, JRE, JVM ? What is expectations ?

Q.compare 2 list and find similar data
  new java.util.HashSet(list1).retainAll(list2)

Q.1000 lockers and 1000 students problem
  N^2 where N is a number
Q. Flow chart to calcultate the residue value of vehicles in some years according to given instruction.

Q.Given a set of transactions done by a person, it can reach a server in different order. Had to come up with a solution to maintain all transactions done by a person in the order it was done though transactions may arrive out of order.
  Simple soultion using min-heap and sequence numbers
Q.Analytical Questions related to patterns like If 'hi abc' is 'jk hgsjk' The what is 'abc'
Q.Why key is immutable in hashmap?
Q.2 different database how to write in single service and how to rollback if any one fails

Q.If we have 1 tera byte file, having data of student with city, write a java program to get the count of student city wise

Q.If we have huge file of 1 1 GB, and we need to compare both the files, what is tge most effective way to compare file whether they are equal or not

<p align="center"><b style="color:red">Q.FOR KUNULDUS COMPANY</p>

<p align="center">Rnd 1 create threads, SQL query for top 3 salary.</p>

<p align="center">Rnd 2 Insertion sort Question, Loop in a link list, String Manipulation, Merge sort</p>

<p align="center">Rnd 3 Duplicate char in a String using java-8, completable future example,</p>

<p align="center">Java-8 related programs, MongoDB queries</p>

Q.How will you implement security in java?

By using Encaptulation, In Encaptulation we will provide security for data by avoiding direct access of class members and that members are accessed by proper authendication and public setter and getter methods.

Q.Write a program to print the middle numbers between three numbers?

Q.Merge two sorted linked list (Written Test)

Q.An array contain -ve and +ve numbers, sorted the array after Squaring each number in O(n) arr = {-3,-2,-1,1,2,3} after squaring arr will become = {9,4,1,1,4,9} o/p will be = {1,1,4,4,9,9} (F2F Question)

Q.explain me the agile process? How the charts will helps to review the status?

Q.Can hashmap have null keys?

      Allows one null key and stores that n 0th index and multiple null values can be inserted

Q.difference between HashMap , HashTable ConcurrentHashMap?

Q.Do you have Experience on testing domain.

I answered this question like., as a developer i do the testing with Junit Test cases and used Java apis like Junit,Mockiot and Powermockito. we have written python test suite for happy flow of application.

Q.How can you stop clone in a singleton java class?

Overide clone method and inside, throw new CloneNotSupportedException();

Q.What do you mean by string constant pool?

Q.how do you enforce object equality on a business entity so that a Set implementation takes care of the duplicate entity as per business semantics.

Q.Is it necessary to use List list = new ArrayList() over ArrayList list = new ArrayList()?

Q.whether source string contains pattern string?

Gave Rabin-karp implementation. I told him the only issue with it is there might be lot of collision if the rolling hash fucntion doesn't distributes the hash value. So there might be a performance impact, but the algorithm itself will never return incorrect result.

Q.Why String Immutable in java

Q.Round 2: Q1 : What is pointcut & jointcut in Spring AOP.
Q2 : What are the difference between shallow copy vs deep copy in Java?
Q3 : Write an program which demonstrate custom Runtime exception?
Q4 : Find employee for each department whose birthday falls on current month?
Employee (id, name, dob, dept_id) Department (dept_id, dept_name)

ANSWER

 Shallow copy works with only primitive type and deep copy also works with wrappers class and object copy, programmer need to customized the deep copy. A4 : SQL Queries select e.name, d.dept_name from Employee e JOIN Department d on e.dept_id = d.dept_id where MONTH(e.dob) = EXTRACT(MONTH from SYSDATE) group by e.dept_id;

Q.Why Intellect Design?

Q.Cache implementation.
Q.if int i = 10 and int k =10 then what is short j=i+k?
Q.1)Search pivot such that left and right should be equal
    2)Return string contamination (minimum in lexicographical order) in the
given   list of strings.
Polymorphism related concepts ,
Java 8 features ,
Threads ,
why runnable is better ,
serial and parallel streams ,
difference between sql and no sql
Some output based questions on constructor , polymorphism.

Q.Write a code to sort a file which has million if numbers and numbers are non sorted and duplicate.
use parallel sorting using threads

Q.Write a java program to find max element from list and return index and value.

Q.Write a java program to find Max sal of employee group by department.

Q.What do you do for Agile Methodology ?

Q. They told me give the output form the text file

Q. Variable used in Threading (say t1 works on Map, t2 should work after t1 finishes)?

> Variable used in Threading (say t1 works on Map, t2 should work after t1 finishes) : Tried to use flag approach. Didn't satisfy him.

Q.how to check if a list is circular?

> Circular Linked List. how to check if a list is circular? : This one I tried but it has a speicifc approach which I almost pulled out in the discussion. Google it!

Q. What is Hashing, what's a bucket in hashing?

> What is Hashing, what's a bucket in hashing? google it, and pay close attention to what a bucket is.

Q. authentication in Web Servies ?

> authentication in Web Servies. I explained the key mechanism, there is also a basic authentiocation which i don't know

Q. Get Nth employee salary in Oracle.

> Get Nth employee salary in Oracle. This is a tricky one, in oracle there is a TOP func, but there are loads of solutions to it. He wanted the best one. even google will confuse you on this.

Q. Write a simple program to verify if given string is palindrome

Q. Write a program to find all combinations of given string

Q. Multiple Consumers and multiple producers implementation approach.

Q. Distributed Cache implementation approach

Q.Jvm garbage collection details

Q. Complete JVM architecture

Q. Write a program to generate a dead lock

Q. Renentrant locks usage

Q. Design patterns used

Q.String class of Java is Private class or not?

Q.Why we need a synchronized block to execute wait ?

Q.How to make a class immutable?

Q.how many methods are in Object class

Q. why java allow to write Abstract class with any method(abstract or non abstract)

Q. how to set data in final class.

Q. java core principles

Q. Factory pattern's

Q. String s = new String ("one") s. Concat ("two") Sysout(s) ?

Q. Write a program to multiply the digits of number If number is 12345 Than output should be multiplication of 1*2*3*4*5 If number is 120 Than output should

be multiplication of 1*20 If number is 1006 Than output should be 100*6

Q. What is jpa?what does jpa do?

Q. What is rest?

Q. what is resource in restful API?

Q. What is j2ee?

Q.which technologies come under j2ee

Q.What is css?

Q. What is springboot and how it is different from Java?

Q. How is jpa different from hibernate

Q. Water-Jug puzzle, Is BST, Tree and graph problems

Q. What is Virtual, Size of empty class, what is Copy Constructor, Thread, IPC.

Q. How to iterate Hash Map. Delete duplicate rows from the table

Q. what is view

Q. implement map

Q. how to traverse backward singly linked list without using any built functions and collection concepts

Q. Reverse a String with out using Reverse() method?

Q. When do we need a web.xml file in a project?

Q. if int i = 10_00 and int j= 10_00_00 then what is int k=i+j?

Q. What happens when we have a scynchronized method? method gets lock or the object is locked.

Q. WAP to find duplicates in an array

Q. Spring boot architecture

Q. write code for deadlock condition

Q. what is faster Array or Array List

Q.why concurrent Hash map is needed.

Q. spring auto wiring ,

Q. how link shortening works

Q.string buffer vs string builder

Q.Find minimum element in a rotated array.

Q. Program for x power n.

Q. how to reverse a link list

Q.difference between lock and synchronisation

Q. object level lock vs class level lock

Q. parallel gc vs concurrent gc

Q. What is Jdk,jre,jevm?

Q. What are the tools worked on?

Q. What is the string immutable concepts?

Q. Angular lifecycle.

Q. EC2 instances.

Q. Types of storage.

Q. Spring transactions.

Q. @configuration, @autowire, @qualifier annotations in spring

Q.Box model in css

Q.Runtime vs compile time interpreter (which one java is)

Q. What is JSON

Q. what is Servlet

Q. Implements IPhone Software Design.

Q. can we make class static? what is inner class?

Q.Explain arraylist

Q. explain system.out.println()

Q. If I write system.exit() in try block , will finally block get executed?

Q. Difference between TreeSet(sort) vs Collections.sort

Q. what is mappedby property dose?

Q. what are the states of an entity object

Q. states of tread object? how to find the current state?

Q. what is IOC?

Q. what is manyToOne mapping ?

Q. How many columns in a database can have indexed? Can we have indexes on every column in a table? Any pros/cons?

Q. What are the oops concepts you have used? What is abstraction? Difference between abstraction and interface. Explain with real life example.

Q. Can we change the dispatcher servlet's XML making file name?

Q. How to debug a JavaScript?

Q. Spring MVC flow.

Q. What is a controller?

Q. Where and how is the request mapped?

Q. What is serializable, what care needs to be taken if you serialize a class?

Q. What care needs to be taken to convert an object to be serializable? Saving part as well, what streams need to be used?

Q. Hashmap with sting literal and new string as key what will be the size?

Q. Executor framework, Concurrent hashmap?

Q. how to develop spring rest application

Q. Can constructor be overridden?

Q. A class depends on B and B depends on A class, how do you autowire?

Q. comparable and comparator when to use which one

Q. SDLC

Q. Why we use @qualifier

Q. hibernate close session,openssesion,get,load

Q. Write own code to implement your own cache and it's all functionality and how to use line by line exact code.

Q. How to implement torrent like file sharing system.

Q. What is web service? What is hibernate? Why we should go for hibernate? What are the difficulties to face from one database to another using Hibernate.

Q. Count number of 1's in a binary sorted array, alternate way using collections(Think of frequency)

Q. Array list to hash map using streams based on some filter.

Q. How doubly linked list is implemented in java

Q. Difference between set and list

Q. Given order id, quantity and country find max of quantity by country

Q. Level order traversal of binary tree

Q. How to detect memory leak in production env

Q. Caching techniques

Q. WAP to find the sum of last and first rows and columns of n*n matrix

Q. Next largest element from a give element in a BST

Q. print all possible combinations of a binary string with some special characters which can be replaced by either 1 or 0. eg: 1# = 10, 11 (2 possible combination)

Q. Implementation of Singleton Pattern

Q. Next big no. from a given no. using the same digits

Q. identify common elements in two arrays

Q. write merge sort program.

Q. Spring and its impact in the industry

Q. Find the 3rd largest salary from salary table and print Employee details from employee table along with salary ?

Q. use of marker interface

Q. program to sort list odd number and even number

Q. Memory management in java

Q.How you will override hashcode method?

Q. Java 8 features. What is serveltconfig?

Q. Difference between merge and rebase?

Q. How to create git branch?

Q. Wait vs notify methods

Q. @Transaction annotation in Spring

Q. For a class there are three constructor methods, with different number of arguments, call all of them at one go without creating seperate objects each time. You are allowed to add additional code within constructor

Q. Best way to implement singleton

Q. Types of HTTP methods

Q. What is ThreadLocal in JAVA?

Q. find the Name and Manager name through SQL which is store in same table and conditions to check is only name.

Q. How arraylist grow

Q. Find missing element in list of array

Q. what is cursor

Q. Write a class for which only three objects can be created.

Q. implementation of LRU, how would you maintain version of API

Q. what are 4 pillars of OOPS

Q. sql query to find employee strength of all the departments given two tables 1. department 2. employee

Q. there are two linked list they intersect at one point and become one list find the intersection point.

Q. how to find nth largest number in array

Q. convert given string as per requirement. abc123 need to be convert

012onetwothree

Q. find given number into given array

Q. read file and write content into other file using multithreading

Q. prove stringbuffer is better than string in terms of performance and memory
Q. read XML file and convert its values into collection list.

Q. JDK, JVM, JRE , JVM architecture, Classloader.

Q. Diff b/w ClassNotFoundException Vs NoClassDefFoundError

Q. reversing a number without using any string operations

Q. Difference between strong reference vs weak reference

Q. Single query to get sum of negative numbers, positive numbers from a column

Q. Advantages of spring boot

Q. Palindrome string

Q. Count duplicates in a string

Q. permutations of a string

Q. Normalization

Q. Dependency Injection in Java

Q. @compnent @Serivce @Repository

Q. Dependency Injection in Angular

Q. prototype in javascript

Q.Service and factory difference

Q. $watch

Q. setTimeout and Interval

Q. what do know about Jenkins

Q.String, String Buffer, String Builder.

Q. catch(Throwable t) will work?

Q. How lambda internally works.

Q. cound the characters in a string using PL/SQL

Q. print the duplicate rows in a table

Q. internal working of hashset add method?

Q. Performance of hashmap if hascode() returns same value every time

Q. mysql query for count of records.

Q. Arrayblockingqueue vs linked blockingqueue, countdownlatch, cyclic barrier.

Q. String str = "Test"; String str1 = "Test"; String str2 = new String ("Test"): how many object would be created in pool and heap?

Q. @Asynch and @Transient annotation explanation

Q. how weblogic works

Q. What's is the architecture of microservice, Responsibility of eureka server zool, Api gateway, Ribbon

Q. Explain hierarchy of servlet

Q. what is DLL/DML

Q. write Fibonacci series using recursion and why is this method bad, what is the best solution

Q. Difference betwean ApplicationContaxt and BeanFactory

Q. How many types of scope of Beans in Spring?

Q. Prototype in spring

Q. find duplicate using hasmap

Q. What is string pool and where it is stored in memory

Q. Inheritance Breaks encapsulation, is it true?

Q. About Volatile and internal working nature of it.

Q. How to achieve Immutability and why we need it.

Q. Different Class loaders

Q. Sql Injection

Q. Load Factor in HashMap

Q. Simple program to transfuse 3x3 integer matrix Input - 1 2 3 4 5 6 7 8 9

Q. Given a list of strings, print the max occurring one, if two or more strings have same number of occurances, print the one which is lexicographically last

Q. Method overriding rules?

Q. Given array {4,5,6,1,2,4}; how do u search particular element say 1?

 Ans: he was looking for best search algorithm – ans is binary search algorithm

Q. Output?

- //classes will compile fine bcos both r throwing run time exceptions
- class TestOverride {
  - void solution() throws NullPointerException {
    - System.out.println("super");
  - }
- }
- class TestSubOverride extends TestOverride {
  - void solution() throws RuntimeException {
    - System.out.println("sub");
  - }
- }

Q. Consider I have huge data which is stored randomly, which data structure is best for retrieval with performance of O(1)?

Ans: Hashmap bcos of performance O(1) always

Q. Write a code to delete a node from LinkedList

Q. Write a simple code for Threading.

Q. What is difference between callable and Runnable?

Q. What is functional interface?

Q. Why functional interface should have only one abstract method why not more than one?

Q. When we use lamda expressions?

Q. What is difference between IOC and dependency injection?

Q. Why do we need dependency injection?

Q. Scopes of bean in spring?

Q. Why Java is so popular? In depth answer

Q. Given Name, write code to print all combinations using that.

Q. Given array, {1,2,3,4,5,6,7,8} and {4,1,2,5,1,2,3,4,5,6,7,8}, at any given position how do you find out array is sorted or not. (Circular sorting)

Q. Check if two string is rotation of each other ,

      eg. 1. S1 = dabc and S2 = abcd (current)

          2. S1 = dabc and S2 = dbac (Incorrect)

Q. How would you go about inserting 2 million records from a csv to database? Include all the file handling and database scenarios

Q. Input is an array of numbers [1,2,3,4,2,3,1,2] and we need to print the longest increasing sequence length. here it should be 4 (for 1,2,3,4).

Q. Implement BlockingQueue for enqueue and dequeue functionality.

Q. Tell me what all Design pattern will you use to implement Elevator calling system?

Q. What is the advantage of version ID in serialisation?

Q. program to convert decimal to binary number.

Q. How do you implement GET and POST calls in your projects?

Q. how devtools work internally

Q. which one to choose, static or singleton pattern.

Q. need to overload any method will it not create confusion with the names.

Q. what is cyclic dependency. Impact of cyclic dependency on application. how to get rid of it?

Q.describe any design pattern .why chose that pattern and its advantages
Q.what is is-a and has-has a relationship

Q.write code for singleton pattern.

Q.What if i change the flow FROM Controller -> Service ->Repository TO Controller ->Repository will it work? (Spring MVC flow)

Q. How does hashmap work? how does it find the index of a key?

Q. what is mvc architecture?

Q. write a code to print this-

```
        *
          **
        ****
```

Q. How to find the second highest integer in an array which contains both positive and negative integers with out using java. Just algorithm

Q. Write a program to find minimum element from unsorted array.

Q. Count ways to reach the nth stair using step 1, or 2 or both For ex :If we want to reach at 4th Step: No of ways would be : 1+1+1+1, 2+2, 1+1+2, 2+1+1

Q. Java Program to Print sequence of numbers using threads

Q. time comexity of binary search

Q. sort an array with O(n)

Q. Algo to match addresses written in different formats.
Q. callable vs runnable interface

Q. write a REST endpoint that could give information about other endpoints like Swagger.

Q. collection.sort uses which algorithm

Q. why not to use hashmap in multi threaded environment

Q. Find non repeating last character in the given string Ex: "Manhattan" 'h'

Q. if I have parameterized constructor and i create obj using no arg const. will it work?

Q. A scenario to use local storage to store temporary data.

Q. Internal working of Garbage collectors

Q. What is Java Persistence API?

Q. what is Springs, Java beans?

Q. what is Class Loaders, Serialization and Socket?

Q. Design database for simple login functionality given the account freezes after 3 incorrect login attempt in 24 hrs span.

Q. How would you create you own connection pool framework

Q. Design of the game, similar to what comes google chrome shows when internet goes down.

Q. custom authentication in spring security

Q. List list = new ArrayList (); for(int i=0;i<10;i++){ list.add(i); list.remove(i); } will get compile or execute?

Q. count char occurrence in string

Q. row*Column array, find max sum for row and for column.

Q. hibernate open session and current session get and load method

Q. How to prevent Singleton class multiple object creation from reflection

Q. Different ways to load a huge log file in the database.

Q. Shell scripting - commands like awk, sed, wc -l

Q Database partioning

Q. Regex in perl scripting

Q. Git

Q. Stash

Q. Agile Managerial

Q. Questions about agile

Q. How soon you can join the company

Q. Architecture of your previous projects Senior Managerial

Q. What are your expectations from your colleague

Q. Latest technology you have learnt and why

Q. How will you approach a design problem

Q. How will you resolve a issue

Q. Given a new scenario, how will you proceed with the POC

Q. what is eureka in microservice?

Q. Find the duplicate chars count form the given string input?

Q. Have you used concurrent classes in Java? Yes, then explain.

Q. why do we need to override equals if we override hashcode

Q. Design YouTube services: upload and search

Q. Explain about monolithic architecture.

Q. What is stored procedure?

Q. How to schedule jobs in Jenkins?

Q. if you get 1000 requests for you api developed, but your hardware can handle

only 200 then how can you handle load?

Q. how do you handle if in production if you got out of memory error

Q. Design your own load balancer.

Q. what are the good methodologies we should follow while writing RESTful webservices

Q. What is executor service

Q. Syntax for JDBC connection in spring configuration file.

Q. run is comes from which place

Q. Atomic Integer why provided by java environment

Q. Which two keywords among these are mandatory in any PL/SQL block? DECLARE, BEGIN, EXCEPTION, END

Q. What is composition?

Q. How to add duplicate objects in Set

Q. annonymous inner class declared in Method and method of it accessing static member of method itself

Q. How to find a broken link in linked list
        They were expecting solution using tow pointers one accesses just next element and one next to next. So if there is back link to wrong element (say from last element to 3rd instead of 1st) one time both will point the same

Q. nth highest salary

Q. Create a spring boot application with BO & DAO layers for a usecase similar to twitter

Q. covert string 123 into number without using integer.parseInt
Q. How to design and code a multi threading application for movie ticket counter

Q. explain the architecture of your application. Spring related questions, annotations and how XML parsing will be done for a request in that format.

Q. what is node and cell in cluster how it is helpful when you deploy the application on IBM websphere
Q. Three input files one csv, one excel and one xml file is given. You need to find the group of students from a particular city and gender and write them into a file.
Q. How to implement Linked Hashmap.

Q. How ConcurrentHashMap works?

Q. There were a problem statement wherein you need to design a solution for

time tracking system with the organization. You need to mention the efforts estimation as well as resource plan as well **ASKED IN TO THE NEW**

Q. Your project Micro services architecture

Q. Oath2 authentication

Q. Spring jpa

Q. Auto wired

Q Proxy server

Q. Different between @Controller and @RestController

Q. There is a class in which I declare 2 instance variables. A map and a string. Initialize both. Then, pass both of them to a method and change the values. What will be the value of map and string before and after calling the method.

Q. Dynamic Polymorphism. All the variants(Object of child, reference of parent).

Q. If the methods are static , how does DP work?

Q. Typecasting. How does it work?

Q. Immutable classes. How do you initialize it?

Q. When do you prefer Interfaces and when abstract class. Prepare well for this question. They confuse you a lot.

Q. Overloading with different arguments.

Q. Instantiating an abstract class. There is an abstract class and other normal class extends the abstract class. In constructor it calls super(this). What happens?

Q. SQL query to print Eid and DIP from 2 different tables

Q. Using SQL swap salary of given two employee , let say empId 120 & 130

Q. How to handle transaction inconsistency?

Q. Write a program to read data from xml

Q. How you write Webservices

Q. How you map the http methods to respective functions.

Q. A program to rearrange the numbers in from 1,2,3,6,-1,10,5,-10,88 to -1, 1, 2,3,5,6,-10, 10,88

Q. Jsp Implicit objects

Q. Classification of Jstl tags.

Q. How you invoke a rest web service from plain java class without using spring or Jax-Rs

Q. How to improve the performance of a web service which was gradually increases the response time from 1 Second to 15 min

Q. After a month, the webservice objects need to be cleared to keep the memory free. How will you achieve this?

Q. How will you make 2 individual machine to speak with each other in internet?

Q. Which collection will you use to keep the recent most five elements only?

Q. Host name port number resolution
https://cloud.google.com/load-balancing/docs/url-map-concepts

Q.Design calculator for different consumers(Solar, Scientific, Astronomical), with code reuse

Q. Code for minimum difference between the values of any two different nodes in the Binary Search tree.

Q. SQL to select all employees along with department name, from Employee table and Department Table.

Q. remove dublicate elements from array without using collection framework with complexity O(n)

Q. Demonstration of CRUD operation using Spring and Hibernate - Add, View, Update and Delete Student details.

Q. Design ATM machine

Q. Spring boot override default implementation

Q. Print Binary tree in spiral order

Q. Given mapping between city to city, print complete path from source city till destination city.

Q. There are two tables with individual data and address data and if the application fails to insert data into address, the data inserted in individual data should also be deleted

Q. diif between get and load

Q. How do you handle exceptions in a spring web application?

Q. write code to create a singleton class in a multi-threaded environment. In how many ways can you break a singleton?

Q. How to get the top marks from table school.

Q. How two jvm can communicate?

Q. Make a queue using 2 stacks

Q. Yarn architecture

Q. add nodes to cluster

Q. cluster setup and configurations.

Q.In overriding parent class method throws IOException and child class method throws Exception . will it work?

Q. Overloading: foo(Object o) foo(String s) now if I call foo(null) which method will get executed?

Q. find the duplicates in arraylist using java 8

Q. Write down the WSDL structure

Q. Explain Spring bean life cycle

Q. Which controller to use for creating a rest based webservice in spring

Q. You are a prisoner in a room with 2 doors and 2 guards. One of the doors will guide you to freedom and behind the other is a hangman --you don't know which is which.

One of the guards always tells the truth and the other always lies. You don't know which one is the truth-teller or the liar either.

You have to choose and open one of these doors, but you can only ask a single question to one of the guards.

What do you ask so you can pick the door to freedom?

Q. Whatsapp design

Q. min and max in an array

Q. remove duplicates from a string without using extra memory

Q. integer between 0 to 999999 will be given we need to print them in words like for 120 print one hundred twenty

Q. JMS queues find out the winner of the tic-tac game board of any size.

Q. write the data coming from the DB to a file using multiple threads

Q. implement thread safety without using synchronized block

Q. What is metaspace?

Q. Write a program to check salary of employee and add it to the employee, to a

map which has key values as 'a' and 'b', base upon their salary range, eg. salary range less than 1000 will go in key 'a' and greater will go in 'b' so a map will be. Do this using stream and lambda expression. it should return the map.

Q. jvm architecture and the debugging mechanisms

Q. How to return value from a thread ? or Share variable between two threads?

Q. HashMap.get complexity - how internally works?

Q. How to use multiple databases in hibernate, does it required different config configurations files? Can we use different databases using the same session?

Q. Java 8 new features

Q. Difference between Interface and abstract class

Q. How to iterate HshMap

Q. Asked Scenario based question on Template Design Pattern (there is one interface hving 4 methods. you have to implement in a way such that all methods should execute one after another).

Q. Inner Join Question to get matched records from two tables

Q. classic Sql question. There is no Primary or foreign key in table. Hw to get Unique columns from each department and employee.

Q. What are the design patterns you have worked on?

Q. How to achieve thread safety for a class.

Q. what is class level and object level locking

Q. Spring Bean scopes.

Q. List list = new ArrayList(); System.out.println(list.get(0)); what will be the output?

Q. what type of ioc container in spring where we can use @bean and @ component

Q. what will happen if we do not provide constructor private in Singleton

Q. How to read a big text file of 1 tb of size and check for particular keywords and write in another file without causing memory and performance issues

Q. Order module design

Q. 2 Interfaces in java has a method named m1() and one class implements both the interfaces. Which interface method will get called while calling the m1() method.

Q. Order module design

Q. Class level lock and method level lock example

Q. Bread first search uses which data structure?

Q. Alarm clock design and implementation

Q. Elevator Algorithm in which there are many floors and many lifts used to work. give a very optimal solution for so that waiting time will be less as much as possible. which design pattern will be used in this case.

Q. how is java platform independent

Q. (NON JAVA)How to get 2L water from using a 5L and 3L Bucket. and similarly 4L water.

Q. How to find if two strings are Anagrams without using any collection and inbuilt string function

Q. Design and implement the laundry machine. Design a website which displays no of visitors visited so far and also handles multiple request.

Q. Mention steps and how to implement Spring DI on your own?

Q. Design time entry system for employees. Find out in 6 how many holidays does an employee took

Q. Data base query optimization

Q. Write Primary key and Foreign key relation example?

Q. how link shortening works

Q. encryption logic for online bidding scenarios in java

Q. Find and return unique character in a string

Q. ORM and it's benefits of

Q. How a claint program can know the request reached to server?

Q. GO TO THIS LINK FOR MORE QUESTIONS

https://www.inventateq.com/java-interview-questions-with-answers.php