1.            Find the stock value on the basis of data from two list of data one from NFS and other for BFS.

2.            Write the query to find the employee ids from the table which have not assigned any department.

Select e.id from employee e where d.id=null;

3.            Java 8 code for -> evaluate country wise max salary of Employees.

// 4. find the max employee salary for each department.

Map<Integer, Employee> employeesMaxSalByDep = employees.stream()

.collect(Collectors.*groupingBy*(e -> e.getDeptId(), Collectors.*collectingAndThen*(

Collectors.*maxBy*((e1, e2) -> e1.getSalary() - e2.getSalary()), Optional::get)));

4.            Java 8 memory changes.

PremGem(Heap) to Metacpace(Native memeory)

5.            Memory management for the application - > Jconsole or JVMVisual

Tool for Monitoring heap memory

6.            Which data structure supports insertion order and unique elements.

set

7.            Java 8 streams hands on.

8.            Different scheme for thread safety. Thread safety with respect to string?

9.            Two types of technique to evaluate whether two strings are Anagram or not. Then time and space complexity.

10.          Locks vs Synchronized.

11.          Cyclic Barrier and Countdown Latch.

12.          Merge sort and Quick sort.

13.          Types of trees - > Balanced tree, Red Black tree, Binary tree

14.          Agile practice - > Epic, Story, Task, effort estimation

15.          Sprint and Sprint Planning.

16.          Different type of testing -> Unit, integration, system

17.          Junit, Mockito, PowerMock framework basic.

18.          Which data structure you will use if you need to store millions of records and why?

19.          Can we use ArrayList for millions of data to store?

Performance is always matter, **If your business requirement is fast iteration of element based on index for example get(index) then must go with ArrayList  
Or If your business requirement is fast random insertion/deletion then must go with LinkedList.**  
  
But if your interviewer says, that **he does not want to fast random insertion/deletion of element or fast iteration of element based on index, he just want to store 10 million of element inside a collection between ArrayList and LinkedList.** Most of the time candidate get fail to give the correct answer of this because candidates start comparing between insertion/deletion/iteration only.  
Most of the candidate forgot to comparing them about there internal structure(how they keep the elements) and fail to give the correct answer, but most of the smart candidates always find a fruitful discussion on this topic.  
  
Well answer of this question is yes ArrayList, Ok How?  
  
**Point #1 Regarding Space:** Well ArrayList will take less memory as compared to LinkedList because we all know that LinkedList maintain doubly Linked-List so LinkedList require extra space to keep the next and previous elements.

Ad by Google

**Point #2 Regading Time:** We all know that ArrayList has a constructor with initialCapacity 

public ArrayList(int initialCapacity)

which will again reduce the insertion time of large number of elements. At the time of of ArrayList declaration, declared with initial capacity because you all ready know how much element you want to store and this is what a interviewer wants from you.

20.          do you know CitiTeam and Docker?

21.          Why to use Springboot?

22.          Is it fine to accept changes in task list in the middle of sprint?

23.          Design perspective ->  if you want your application to be supportive to 3rd party clients or android application.

24.          Architecture of the last project.

25.          DI and IOC theory.

26.          Sorting algorithm like merge sort, bubble sort, Quick sort.

27.          Rest services verbs -> POST and GET.

28.          What REST method to be used for archiving some data.

29.          How to resolve outofmemory error in the memory.

30.          Use of Singleton class.

31.          How to calculate the number of logins appear in the application which is multi server deployed and load balanced.

32.          How to flow the new changes in the rest services to the client.

•             Write a program in java 8 to find frequency of data in List of string.

•             How parallel streams works?

•             How parallel stream works in java 8, write a program to implement parallelism to find frequency of data in List of string.

•             Hashmap internal working- which data structure it is using internally.

•             Why we don't use 2d array instead of HashMap collection?

•             Which data structure you will use if you need to store million of records and why?

•             What is Stack?

•             If we have two tables employees and departments then write a query to find max salary with department wise.

SELECT DeptName.

,MAX(Salary) AS [Max Salary]

FROM Department D.

LEFT JOIN Employee E ON D.ID = E.DeptID.

GROUP BY DeptName.

ORDER BY DeptName.

•             If we have two tables employees and departments then write a query to find max salary with department wise and department name equals to 'Account'.

•             Junit, Mockito, PowerMock

•             Executor framework

•             Anagram - Provide two ways to check whether two string are anagram or not?

•             Suppose we have some problem in our e-commerce like application throws OutOfMemoryError on weekends when application gets high hits on our server. How you can resolve this problem if we have limited memory available to server.

Questions in written test includes:

1.            Object oriented JavaScript concepts objective questions was there.

2.            Questions related to the scope using this keyword, lexical scoping , prototyping.

3.            JavaScript Hoisting questions

Technical discussion questions:

1.Questions over your best project that you had previously.

2.what are the features in that project

3.what is your main role in that. They can ask questions on the basis of what you described about your project.

How to handle two parallel $http calls. what is the best approach?

How to filter out the data?

How to communicate between two services?

How to notify one services on the basis of changes in another service.

How to achieve inheritance in JavaScript.

1.            frequency in string array - Java 8(must)

2.            Find lowest and highest bidding values of Companies

3.            Inner join on employee and departments - fetch all the employees with departments assigned.

4.            Millions of URL to check whether  working or not

5.            FixedThread pool

6.            Internal working of HashMap

7.            Entry class is replaced by Node class

8.            Java 8 streams

9.            Different types of map implementation

10.          Spring security

11.          Reentrant Lock

12.          Cyclic Barrier and Countdown Latch