**Lowe’s Interview Questions**

L1-Technical Interview – Time Duration: 1hr  
  
Coding Problems:  
  
1. Find the maximum and minimum elements in a square matrix within a time complexity of O(n).  
2. Reverse the order of words inside a string in Java.  
3. Count the occurrence of a given character in a string using Stream API in Java.  
  
Technical Discussion:  
  
1. ACID properties in DBMS.  
2. Transactions in Database.  
3. Finding the Nth highest salary from the Employee table (using limit and offset).  
4. Enhancing the performance of DB search operations through indexing, including how to create an index and parameters to consider for choosing a column for indexing.  
5. Making a class Immutable and its use cases.  
6. String Literals.  
  
L2-Technical Interview – Time Duration: 1hr  
  
Coding Problems:  
  
1. Rearrange the elements of an array in a zig-zag fashion.  
2. Move all zeroes to the end of the array.  
  
Technical Discussion:  
  
1. Multithreading basics.  
2. Synchronization and concurrency.  
3. Use cases of Kafka and its implementation, including the use of Zookeeper.  
4. Self join, cross join, and full join in DB, along with their respective use cases.  
5. Queries based on joins and subqueries.  
6. Transactions in DB.  
  
L3-Managerial Round (Project Discussion) – Time Duration: 30 Mins  
  
Discussion Topics:  
  
1. Overview of the current project, including its objectives, architecture, deployment, and maintenance.  
2. Handling/avoiding single points of failure in the application.  
3. Authorization mechanisms in the application.  
4. Project management model (Waterfall or Agile).  
5. Day-to-day tasks.  
6. Challenges faced.  
  
Additionally, I have included questions Rakshith faced during his L1 interview at Lowe’s:  
  
1. OOPS Concepts.  
2. Creating a user database in Java using Encapsulation.  
3. Creating CRUD operations using Rest.  
4. URL links for each operation in CRUD.  
5. Basic Annotations in Spring Boot.  
6. Problem-solving using Collections.  
7. SQL queries involving joins.

**Lowe’s Interview Questions (19363-1):**  
  
1. Write a program to rotate a singly linked list ‘k’ times.

2. Point out all the errors in the following program:

final abstract class SuperClass{

public SuperClass(){

}

public void method1() throws IOException{

System.out.println("SuperClass");

}

public abstract method2();

}

public class ChildClass extends SuperClass {

public void method1() throws Exception {

System.out.println("ChildClass");

}

public static void main(String[] args) throws Exception {

SuperClass childClass = new ChildClass();

childClass.method1();

}

}

3. What is the output of the following code snippet.

public class Car{

public void break(){

sop "Vehicle stops"

}

public void accelerate(){

sop "Vehicle accelerates"

}

}

public class MercedesBenz extends Car{

public void break(){

sop "Vehicle stops"

}

public void accelerate(){

sop "Vehicle accelerates"

}

public void opensunroof(){

sop "sunroof opened"

}

}

public class Test{

psv main(string[] args){

Car car = new MercedesBenz();

car.opensunroof();

}

}

4. Given a list of employees, return a list containing age wise average salary of the employees using java8 features

List<Emp> employees = Arrays.asList(new Emp("A", 25, 50000),

new Emp("B", 25, 35000),

new Emp("C", 30, 56000),

new Emp("D", 25, 60000));

5. Write a REST API (Controller, Service and Repository class) to return a list of edam ids which have missing CDN info:

Sample edam object: {

"edamId": "EDAM\_00307331",

"cdn": "https://ppgoogle.com/test/blueimages/36bdee6a-e628-48b8-b131-420a7bbbe771/00307331.jpeg",

"type": "Image",

"active": true,

"metaTags": [

"TAG\_image"

]}

6. Life cycle of a bean in Spring.