Coding Questions:

1.Merge two unsorted arrays into single sorted array without duplicates?

 [1,4,6,8,2,3,1,10,100,20]

[7,9,6,5,10,1,4,100]

2. Find the First Non-Repeating Character in a String

 "Swiss"

3. [1,7,6,8,10,2,3]

Find second largest number in an integer array?

4.Problem Statement: Given a set of strings, find the longest common prefix.  
Examples:

Input: {“geeksforgeeks”, “geeks”, “geek”, “geezer”}  
Output: “gee”

Input: {“apple”, “ape”, “april”}  
Output: “ap”

5.  How do you remove duplicate elements from a list using Java

[1, 2, 4,6,7,1,2,3]

6. can you tell me which occupies heap anf stack memory here

class Main {  
   public void printArray(int[] array){  
       for(int i : array)  
           System.out.println(i);  
   }  
   public static void main(String args[]) {  
       int[] array = new int[10];  
       printArray(array);  
   }  
}

7. which one is instance variable and local variable

class company {  
public String EmpName;  
public double Empsurname;  
public int EmpAge;  
}

public void company() {  
String EmpName;  
double Empsurname;  
int EmpAge;  
}

8. Find the First Non-Repeating Character in a String

"swiss"

9. merge two unsorted arrays into single sorted array without duplicates?

[1,4,6,8,2,3,1,10,100,20]

[7,9,6,5,10,1,4,100]

1. Explain the architecture of the current project

- Tools/Technology used

- Architecture pattern and reason to use it

2. Scenario based questions like

- How performance of the database can be improved

- How messaging queue works and how you implemented

3. Coding Question

   -  Giving 2 queue, how do you make stack operation - like push , pop

write code for Fibonacci and Reversing the string.

ample Questions

1.Given a string s, return the number of palindromic substrings in it.

Input to be read from file. Implement custom exception handling.

Example :

Input: s = "aaa"

Output: 6

Explanation: Six palindromic strings: "a", "a", "a", "aa", "aa", "aaa".

2.Create 2 Thread

print 0 to 100

Even thread even number

Odd Thread Odd number

3. String Validation : Like Password checking, Email Validation

Given a string containing just the characters '(' and ')', return the length of the longest valid (well-formed)

4.Problem Statement: Distributed Microservices System for E-commerce Platform

5.Suppose we have a class:

public class Foo {

public void first() { print("first"); }

public void second() { print("second"); }

public void third() { print("third"); }

}

The same instance of Foo will be passed to three different threads. Thread A will call first(), thread B will call second(), and thread C will call third().

Design a mechanism and modify the program to ensure that second() is executed after first(), and third() is executed after second().

Requirements:

An event contains fields such as - id, name, description, shape, area.

Mandatory Fields: id, shape.

Optional Fields: name, description, area.

Process each event as follows and prepare a JSON:

If any mandatory field is empty, skip the event.

If any optional field is empty, provide a default value.

Compute the area of each shape

Once processed, write each event into a separate file with name `<event-id>.evt`

Write a code:

Daemon service: Periodically read the events from a queue, process them and write into output directory.

Command line client: to write input events into the queue

Tips:

Before jumping into writing code, try to use Object Oriented Principles to design your system.

Make use of Logging, Exception Handling, Inheritance, Serialization etc.

Ask questions on unknowns.

Some More

* Implement queue with the help of stack
* Factorial with recursion (ask to write in javascript)
* Create a tree and insert element
* In html, display a sentence with every word with different color
* Implementation for generic Array List implementation.
* Sort the Array and find 2nd largest element
* Explain about thread dump and heap dump. How to analyze those.
* USer Authentication: LDAP, ActiveDic, SSL, Kerbarose
* OAUTH2.0 protocol, and different grant types of OAUTH Protocol.
* Memory Cache, and Different caching strategies.
* Exception handling in spirnboot
* database optimization- Have you optimized SQL query? Why you chose NoSQL