

Neiron India(DemandHelm) - Nihir Praful Shah - 16th February 2021

Technical Test (Total time allotted 4hrs)

6 MCQs majorly on Data Structures

7 Coding Question

3 - Logic Based (Any language)

2 - Front End(Angular)

1 - SQL Query

1 - Backend Question (Java)

6 Open ended questions/ Subjective Questions - All on DBMS

1st round :- Took by CEO and General Manager

Q1. Print Fibonacci series upto a limit with only prime numbers

Can choose any language we want and started writing the code and explaining the logic

Wrote rough code and explained. Asked me to do some changes as I had little misunderstanding in question

Made the changes as they asked

A. <https://www.geeksforgeeks.org/prime-numbers-fibonacci/>

Q2. If you are working at facebook and suddenly the number of daily users drop by 10%, how will you investigate what is root problem for it?

A. They don't need any solution to the problem but just how can you find out the problem, like root cause analysis of it.

After few answers, CEO also told that there is no right/wrong answer to it. Just want to check depth and breadth of your thinking.

2nd round :-

Q1. Introduce yourself

Q2. Asked to explain me a project I had mentioned in my resume apart from CDAC

Q3. Questions about my work experience

Q4. Asked me to code - Rearrange an array in maximum minimum form

eg. Input: arr[] = {1, 2, 3, 4, 5, 6, 7} Output: arr[] = {7, 1, 6, 2, 5, 3, 4}

Input: arr[] = {1, 2, 3, 4, 5, 6} Output: arr[] = {6, 1, 5, 2, 4, 3} - Alternate minimum and maximum elements

A. <https://www.geeksforgeeks.org/rearrange-array-maximum-minimum-form/>

Q5. Only approach and not coding - How to get number of duplicate lines/sentences in a file

3rd round :-

Q1. Tell me something about yourself and also explain your project. Explain OOPS and it's 4 pillars with respect to your project.

Q2. Explain your technology stack. My backend was .NET so questions on it.

Explain CLR, managed code v/s unmanaged code, generics in .net and so on many questions related to it.

Q3. Monolithic vs Microservice vs Distributed systems, SOLID principle and many more theoretical questions

Q4. Questions on Javascript like Hoisting, objects, string literals, callback hell, promise, rest API, middleware

ES5, ES6, new features of ES6. Rest and spread operators, arrow functions etc etc..

Q5. Asked to code - Merge 2 arrays removing duplicates and in a sorted manner

For example, if {7, -5, 3, 8, -4, 11, -19, 21} and {6, 13, -7, 0, 11, -4, 3, -5} are two unsorted integer arrays then sorted merged array without duplicates will be {-19, -7, -5, -4, 0, 3, 6, 7, 8, 11, 13, 21}.

A. <https://javaconceptoftheday.com/merge-two-arrays-into-single-sorted-array-without-duplicates-in-java/>

Final Result - Selected

Advice - Their main focus is on logic and approach. If not able to code expln them your logic.