

Parag Dudeja (MCA) - Infoedge

Round 1 : Online Assessment (OA), 22nd July 2022, 94 mins

OA was conducted on deselect.com with AI Based Proctoring and had **6 sections**, each section having a time limit. After submitting a section, you can't come back to it later.

Section 1: One Coding Question, 25 mins

<https://www.geeksforgeeks.org/longest-subsegment-1s-formed-changing-k-0s/>

Slight variation of this problem

Section 2: One Coding Question, 45 mins

<https://www.geeksforgeeks.org/longest-common-anagram-subsequence/>

Exactly this one

Section 3: MCQs based on DSA, Output of program, 6 Questions, 6 mins

Section 4: MCQs based on Linux, 6 Questions, 6 mins

Section 5: MCQs based on DBMS and SQL, 6 Questions, 6 mins

Section 6: MCQs based on Networking/Cyber Security, 6 Questions, 6 mins

Coding Questions in my set were fairly easy. I was able to pass all test cases in both the coding questions. I found the MCQs on the tougher side, especially the Networking section

25 students were selected for further rounds

Round 2 : Technical Round 1, 26th July 2022, 2pm-3pm

This round began with my introduction and I was asked a lot of questions regarding my projects and internship. After this it was almost like rapid fire

Q. Explain OOP Concepts.

Q. LRU Cache, discussion only

Q. What is a Red Black Tree? Insertion keys 1,2,3 in a Red Black Tree, Uses of Red Black Tree

Q. Print given pattern using only one loop

Input:

N = 10

Output

1

2 3

4 5 6

7 8 9 10

I was asked to write a working code for this problem and did it in one go

Q. Given an expression in form of a string evaluate the expression

E.g

Input

"x*(y+z)"

x=3, y=4, z=5

Output

27

I was asked to write a pseudocode only for this problem

I asked questions to clarify the problem first and after gathering all the requirements went onto propose a solution based on converting the expression to postfix.

As I was short of time I couldn't complete the pseudocode but I had been in the ear of the interviewer throughout and had explained my thought process well

Overall the round went decent but I wasn't sure whether the interviewer was satisfied with my responses.

I got a call up for second technical round

Round 3 : Technical Round 2, 26th July 2022, 3:40pm-4:20pm

This round began with a short introduction of mine and then the interviewer straightaway started with DSA problem

Q. <https://www.geeksforgeeks.org/clone-a-stack-without-extra-space/>

I hadn't solved this problem earlier. I asked some questions to clarify the problem. I was not able to think of the approach but was constantly communicating my thought process and what was blocking me. The interview gave a small hint. I was able to grasp it and came up with a solution. I was also asked to write a working code for the same.

Q. What is DNS and what happens when we type a URL in a web browser.

Q. Given a huge text file, which cannot be loaded in memory and we want to do some processing. How to go about this? I proposed a solution of breaking the text data in chunks and loading these small chunks in memory

Q. A query is taking too long to process. How can you go about optimising it? I thought for while and about splitting database into smaller sets and running the query in parallel (Sharding)

This round was quite shorter than the previous round . I wasn't much fluent while answering the CS Fundamental questions, and thus I wasn't much confident after this round and had my hopes low

Next day I was informed that I had made it to the third round. After hearing this, I had more energy in me than the previous 2 rounds combined.

Round 4 : Technical Round 3, 27th July 2022, 6pm-6:20pm

This round began my introduction and I was asked to explain my best project, previous internship, reason for choosing particular tech stack in my project

The interviewer gave the scenario in which we have a fast producer and a slow consumer (like a printer). How to optimise the process. I started with explaining the idea of bounded and unbounded buffer but the interviewer was not looking for this. The next obvious thing which came to my mind was increasing the number of consumers (or printers in this case). Surprisingly the interviewer was looking for this only

Next, I was asked about Redis and memcache. I didn't know about these in detail and said the same to the interviewer

Then the interviewer asked a DBMS based question. In a document based database like MongoDB we can easily represent a hierarchical structure representing an organisation. How can we represent the same in a SQL database? The interviewer gave a small hint about what he was looking for. I was able to capture this hint and gave a scheme which had columns for employee id, name and manager id.

The interviewer seemed satisfied and asked if I had any queries for him.

Though the round was quite short, I was confident I had done well in this round

As expected, I was able to clear this round :)

Feedback I received after 3 rounds

"Conceptually good. Was able to pick up hints and get to best solution. Good communication skills. Confident."

Round 5: HR Round, 28th July 2022, 12:30pm-12:40pm

- Introduce yourself
- Experience in previous rounds
- Why Infoedge?
- Where do you stay currently? Whether comfortable with coming to Noida
- Any questions

Result: Selected

Tips

1. Listen to the problem carefully. Though it seems to be obvious, many don't do it.
2. Ask questions and clarify the problem before jumping onto a solution.
3. Communicate your thought process with your interviewer. If you are stuck in a problem, tell your interviewer what is blocking you.
4. Give mock interviews so that you don't feel nervous while speaking in the real one
5. Avoid asking interview flow and questions of other candidates sitting for the same interview process. You may end up confusing yourself
6. Think positive. Work on the process and results will follow