Informatica Experience (R&D Associate Engineer)
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Round 1: Online Assessment MCQ Test (45 mins)

In this round total 30 MCQs were asked mainly from Data Structures, OS, DBMS, OOPs and C/C++.

After this round 31 students were selected for further rounds.

Round 2: Technical Interview (45 mins)

This round was started with my introduction and then interviewer jumped to the operating system questions.

- What happens when we call a function inside the main function (Basically how context of main program is saved on a stack and a new stack is made for a function).

- Where we save the local variables of a function?

- What are the things that threads share?

- How interprocess communication take place between threads?

- Can we share heap between threads?

- How threads are different from process?

Then Interviewer gave me two DSA question:

1. There's an array and elements are repeated in that. If occurrence of all elements is unique then return true else false.

   E.g., arr = [1,2,1,1,2,3], O/P = True.

   Arr = [1,2,1,2,3,3,3], O/P = False (because 1 and 2 occurs same number of times.

2. Flatten the linked list.

   Basically, interviewer wanted to know my approach of recursion.

Interviewer asked me to code on notepad only.

Round 3: Technical Interview (45 min)

The Interview started with an introduction and then he asked me about my projects. Then Interviewer asked me to implement a stack from scratch and also asked to me write two additional functions getMin() and getMax(), just to get minimum and

maximum from stack at any given time. I used my IDE to code. I wrote a code with comments and with proper notations. Interviewer was happy with my code and approach. Then we discussed that how can we implement getMin() function in $O(1)$ time complexity.

Then I was asked some basic OOPs questions and what are ACID properties. Then my interview was concluded.

Round 4: Hiring Manager Round (30 min)

This was a unique round. No DSA question and nothing from core subjects were asked. Interviewer was very friendly and in the starting we came to a pact that there's no correct and wrong answer. Basically, there were 2 questions.

1. How to save data?

   Basically, how file system works in C++. Reading and writing from a file. Then he gave me a situation and we discussed how can we solve that problem.

2. How pointer works in C++?

Round 5: HR Round (Telephonic Round)

He asked some simple HR questions like area of interest, hobbies and whether I was ready to relocate to Bangalore.

KEY TAKEAWAYS
1. Be confident and honest in front of interviewer. Simply say no if you don't know the answer.
2. Try to catch hints as fast as you can that interviewer is giving to the problem.
3. Placement is a game of patience. Don't lose hope if you are not getting selected. Just wait because your luck plays major role in the whole process.