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

Total 30 MCQs were asked mainly from Data Structures, OS, DBMS, OOPs and C/C++. They were mainly Gate Questions as from my observation.

Round 2: Technical Interview (45 mins)

I had some technical issues in this round. So make sure you have proper internet connectivity during your interview, I was lucky enough to get this chance but you might not be. It started with my introduction and then he asked questions from DBMS and a bunch of output questions.

- He asked me about joins and type of joins.

- There was a question to solve based on cross-product of relations.

- Precedence Order of where, having and group by

- The output questions were tricky and based on the language in which I code i.e. "Java". So make sure you are confident with the language in which you code.

Then Interviewer gave me two DSA question:

1. Spell an Integer.

   For example=> Input : 234 (Integer)   Output: Two hundred thirty four (String)

   The first task is to properly understand what the interviewer is actually asking to do. I asked him about the data types of the input and output. And after thinking for while i came up with an approach of using HashMap. Since we need the string equivalent of every numeral we encounter i.e. for 1 to 20, 30, 40, 50,…,90 etc , he later realized it was a lengthy program to code within that time frame. He got my approach and was satisfied with it after seeing a prototype code for it. And we moved to the next question.

2. Sort Positive and Negative Integers (Order maintenance not necessary). Just move all the negatives to the left and positives to the right. Two pointer approach is a solution to this problem.

   Example=> Input: [2,-4,6,7,-1,-3]   Output: [-4,-1,-3,2,6,7]

I gave him an approach and coded it. I was free to use any compiler of my choice for coding.

Round 3: Technical Interview (45 min)

It started with an introduction and then he asked me some theory questions from Computer networks like difference between TCP and UDP, what is virtual memory and Scheduling Algorithms from OS. And then he moved on to DSA.

This question was to check connectivity between all the cities.

For example: you have cities [a, b, c] and you have to check whether all of them are connected to each other or not. After thinking a lot and trying various approaches, I cracked that he was actually asking about DFS. He asked me the way how it can be actually used for this situation in detail or you can say asked about implementation. Since there was no time left he didn't asked me to code it.

Round 4: Technical and Managerial Round (45 min)

So again it started with my introduction and then we discussed about my projects in detail for about 7-8 minutes.

After that he asked 2 DSA Questions

1. I was given an array of strings with directories, filenames and content within the files and was asked to organize those based on the content they have.

   Example:

   Input: Array of strings

   [dir1 1.txt"abcd" 2.txt"pqr", dir2 3.txt"pqr", dir3 4.txt"abcd" 5.txt"xyz"]

   I gave an approach of Hashmap of using content (abcd, pqr, xyz) as key and maintaining an arraylist of path to files as Value.

   i.e. kind of like this=>

Key	Value
abcd	dir1/1.txt, dir3/4.txt
pqr	dir1/2.txt, dir2/3.txt
xyz	dir3/5.txt

   But this approach was not the one he was expecting from me. He restated the question that what if the content is too large to fit in as key in hashmap i.e. it might be of 1MB/GB. I thought for a while but was not able to get an answer. And we moved to the next question.

2. Count Occurrence of every word in a paragraph.

He asked me code both of these. After that he asked me about the research paper I have worked upon (it was mentioned in my resume) and ended up by asking some DBMS questions about joins and ACID property.

Round 5: HR Round (Telephonic Round)

It was a simple telephonic round in which he asked about my family, why I pursued BSc and MSc, where do I live, Am I ready for relocation to Bangalore, Chennai or Hyderabad, about my failures (like how many interviews I have given till then and why I didn't get selected) etc.

Important points to Remember
1. Try to seek for help or hints if you are not able to click any approach in your mind.
2. Avoid being silent i.e. always speak what you are thinking while trying to find an approach to a question.
3. Be confident and answer honestly.
4. Many Interviewers asks you first whether you are familiar with OS, CN, DBMS. Answer it carefully.
5. It's your call how you drive the whole interview from your introduction. You should emphasize more on your good points and seek their attention towards it. (like if you have good projects mention those while introducing yourself).
6. This is all a game of knowledge combined with your fortune. So just give your best, you will get it if you are meant for it and don't lose hope.