Microsoft Interview Experience for SDE Internship (On-Campus 2020)

• Last Updated :\n15 Oct, 2020

Recently Microsoft arrived at our campus for an internship. It was open for CSE with CGPA 7 or above and for EEE, ECE with CGPA 8 or above.

Online Test:\xc2\xa0\t was an online round hosted on https://tests.mettl.com/. There were 3 questions with a duration of 90 minutes and to qualify for interviews, one had to solve at least 2 complete and 1 partial. Every student had a different set. The questions in my set were:

- 1. Convert given infix expression to postfix expression. The main problem was that we are given character array instead of string in C++, so that\xe2\x80\x99s why most students found that difficult. Though I used C++17 in which there was a string.
- 2. Given n dice each with m faces, numbered from 1 to m, find the number of ways to get some X. X is the summation of values on each face when all the dice are thrown. This took some time but I used recursion and memoisation and it passed all test cases.
- 3. We are given the 2nd and 3rd term of GP. We need to find the nth term of GP accurate to 6 decimals. Except for this 6 decimal thing, this question was a cakewalk.

I completely solved 3 questions and out of 104 students, 48 were selected for interviews.

Round 1: Firstly, the interviewer asked me for an introduction, and to make me feel comfortable, he asked some questions related to my hobbies. Then we moved to the code part. He asked me to Print all possible words from phone digits

Though I earlier solved this question once, I took my time to build the solution. I explained my backtracking approach to him. He was satisfied. Then he asked to do this iteratively, after some thinking, I told him iterative one also.\xc2\xa0

Out of 48 candidates, 22 were selected for Round 2.

Round 2:\xc2\xa0The interview commenced with a brief discussion on my DBMS project, and she asked some questions from the project. Then, she gave me a coding question based on anagrams. Precisely, the question was : we are given a set of strings, say

\xe2\x80\x9d\xe2\x80\x9d,\xe2\x

Both rounds\xe2\x80\x99 duration was 1 hour and only 1 coding question was asked per round.

After Round 2, 18 were selected for the HR round from 22 candidates.

HR Round: HR round was 10 minutes long. He asked some basic HR questions. Basically, he was checking communication skills. Afterward, he asked 1 question of DBMS which I was unable to answer.

Finally, 8 students got an internship offer. Unfortunately, I wasn\xe2\x80\x99t one of them.

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