

CVENT INTERVIEW EXPERIENCE (INTERNSHIP+FTE)

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MSC 2021 - 2023

ROUND 1: ONLINE TEST BASED ON CS FUNDAMENTALS AND APTITUDE

It consist of questions based on classes,structures,OS,DBMS,file handling,JAVA,output questions and aptitude questions of easy to medium level.

Total no of questions: 30

Time duration: 60 mins

63 students were shortlisted for next round

ROUND 2: ONLINE CODING TEST

Two arrays were given as input which represents the height of players .Array 1 of n size represents the height of players of team 1 and array 2 of n size represents the height of players of team 2. We were required to build a team from both the arrays of size n in such a way that it maximize the total height of players .

Constraints: can't choose values from both the arrays residing at same index, can't choose consecutive values within same array

It was mentioned in the questions itself that it's a dp problem

26 students were shortlisted for next rounds which were supposed to take place in their office!!

ROUND 3 : TECHNICAL ROUND

My interview was taken by Meenakshi Dahiya(Engineer Manager) . She first asked me to introduce myself and then she asked **why didn't you take MCA** . I said because it was of two years,that was really silly ans that came into my mind then she smiled and said that it means you like shortcuts . Then I said not exactly , since the entrance syllabus of msc was quite doable for me that is why.

Then the next question she came up with was : **Why software engineering and not research?**

To which I answered that first of all research is 10 times difficult than software engineering and this thing I realized while doing dozens of assignments of algorithm in my first semester and came to conclusion that this field is not meant for me at all as I used to struggle a lot and coding didn't frustrate me that much . She said ohh so masters is not easy to which I replied NOT AT ALL!!

These are some unexpected questions that interviewer can throw upon you so just be honest and according to me I think I gave really lame answers but I just said what I felt.

She asked me to brief about my projects and so did I . She asked me some questions based on system programming like one of them was what are regular languages ? I said,that is accepted by

finite automata then she asked what is finite automata and I said that accept the regular languages at which she again smiled and I apologized saying I don't remember it was one of our subject in BSC.

Then we started with DSA part finally

Problem 1: given an input array , output an array such that it consist of count of elements for each element in input array can move to its right . An element in input array can only move to its right if and only if it is smaller than that element.

Eg: INPUT : 1,4,3,2,7

EXPECTED O/P : 0,2,1,0,0

The very first thing that came into my mind was *next greater element to right using stack and stock span problem* that I had already done . This question was quite similar to them , the only modification required was that we need to store the index as well. I solved the problem within 15 mins but she was not convinced as she saw this approach for the first time so it took me time to make her understand and once she did she said I have never seen this approach using only one stack and $O(N)$ time and said good!! I knew she was expecting two stack approach I knew that also but I was confident about my own approach.

Problem 2: given a sorted array 1,2,3,4,5,6 we can swap the elements upto some threshold say 4 (≤ 4 swaps allowed) Return the element with maximum no of swaps

1,4,2,5,3,6 here 4 is swapped 2 times(1,4,2,3,5,6) and then 5 is swapped only once

o/p : 4 as 4 is swapped max no of times i.e 2

I forgot to start with brute and directly jumped to count inversions using merge sort . She was satisfied with $n \log n$ but then she said $\log n$ main ho jaega ye aur socho . Then I thought of various approaches like binary search as well but it didn't work out then she gave me hint of using stack and then I was able to solve it.

Here comes the theory part

What is your favourite subject ?

I said OS then she said why everyone's favourite subject is this to which I said because its concepts can be mapped to real life scenario so its easy to understand .

Which OS do you use?

I said windows and she gave me a very weird look and said why windows and not other OS. I said because its user friendly and easy to use even though its less efficient than linux and other OS.

OOPS CONCEPT was asked in detail (run time and compile time polymorphism,virtual classes) its advantages and I told about all of them but she wasn't convinced as she said that the advantages I told were not for development level .

She asked me java questions and I said I don't know about java

Explain all type of joins? Which type of join gives cartesian product ? I answered this part correctly

She asked me if I have any questions for her, I asked about what kind of work(techstack) is expected from freshers during the initial months of training ?

She said : itna kuch nhi karate yr starting main java main project hai toh java padh lena ache se baaki ham seekha denge .

Students who worked in java were selected .on the previous day so I wasn't sure about me but immediately I was asked to give second round (only 3 out of 7 made it to 2 round on that day)

ROUND 4 : TECHNICAL ROUND

It was taken by ANAND NIGAM (Director Of Engineering at Cvent)

He was really sweet and asked if I need water or shall we continue. He gave me single problem

<https://leetcode.com/problems/maximum-sum-of-two-non-overlapping-subarrays/>

it was spun into case study that there are many trees and some number of apples on each tree . Marry and Bob had to pick apples from x and y trees respectively and consecutively so return the maximum no of apples they can collect collectively. So obviously to maximize they should collect apples from trees in non overlapping manner .

It took me good 10 minutes to understand the problem as he refused to give the test case and asked me to make one on your own . I started with solution and was able to give $O(N^2)$ soln after so many attempts . I got really confused with my own solution but anyhow after 40 mins I gave a solution and he tried to understand each and every line of my code and finally after 2 rejections my final soln covering all edge cases was accepted by him. I apologized to him for giving n^2 soln even after taking so much time . He said its completely ok you were required to solve the problem and you did it and we had a good discussion. I asked many questions and then he especially went out and offered me water as round3 and round4 took place without any break so he was very humble.

7 students were offered intern+FTE

A small discussion with HR with one of my mate who was also selected .

A small suggestion to my juniors : it doesn't matter how much questions you do , even though you are doing 150 to 200 ques just do them properly such that those set of problems are stuck in your mind then you ll be able to solve new questions as well and make sure you cover each and every topic .Consistency is the key and sometimes you will struggle a lot and think that this field is not meant for me but just remember why you started ?

Apart from dsa try to interact with interviewers on other topics as well like about your college,exams anything , More you ll interact more are your chances of getting selected TBH.

PS: HARDWORK ALWAYS OVERPOWER DESTINY!!

