

Ritika Mohanty (MSc 2022-24) Cvent Interview Experience (8th August, 2023)

Online Assessment Round 1 (MCQs Round):

- 30 questions and 40 mins, platform: wheebox
- Concepts covered: c/c++(find error, find output, file handling), java, quantitative aptitude (ratios, angles, ages, profit), dbms (constraints etc)
- AI proctored: camera and mic were on for this round

Coding Round:

1 question and 20 mins, platform: imocha

You are given 2 strings; you have to find the minimum number of letters to be inserted in the both strings respectively such that they become equal. The output has to be separated by a blank space.

Input: abc, kac Output: 1 1

Explanation: insert k in first string and b in second string i.e. kabc kabc.

Eg. Input: xxx yyyy Output: 4 3

Passing all three test cases and an optimized time complexity increases your chances of selection.

1st round of interview (Online, Platform: Zoom, Interviewer: Adhiraj Kumar)

Sir asked me to introduce myself. I ended it by mentioning my recent project.

Puzzle 1: You are provided with 8 identical balls and a measuring instrument. 7 of the eight balls are equal in weight and one of the eight given balls is defective and weighs more. What is the minimum number of measurements required to find the heavier ball. (Similar to:

<https://www.geeksforgeeks.org/puzzle-8-balls-problem/>)

Puzzle 2: Suppose that we wish to know which stories in a 100-storey building are safe to drop eggs from, and which will cause the eggs to break on landing. Find the egg breaking floor using only 2 eggs. (Similar to: <https://www.geeksforgeeks.org/puzzle-set-35-2-eggs-and-100-floors/>)

Sir extended the question by tweaking it a little: Suppose that we wish to know which stories in a 100-storey building are safe to drop eggs from, and which will cause the eggs to break on landing. Find the egg breaking floor using only 3 eggs.

Question: What do you understand by a Binary search?

Question: Then what is a Binary Search Tree?

DSA question: Given a root node of a tree and 2 other nodes, find the LCA (Least Common Ancestor)

Question: What is your favorite subject and why? Are you familiar with OOPs? What is Polymorphism?

Lastly, Sir asked if I had any questions for him. I requested for some feedback.

I asked him that if freshers are not familiar with the tech stack used at the company, are they guided by mentors/ team leaders?

2nd round of interview (Offline, Interviewer: VP of Engineering, Krishan Gupta)

Sir went through my resume, "4 projects and all in different languages?"

Sir: What was your role in this? You must have just used the libraries, right? Using prebuilt functions to implement this KNN and everything.

Sir: Why computer science?

Sir: From all the languages you have mentioned, which is your favorite?

Me: C++

Sir: I assume you are familiar with OOPs. What are the 3 pillars of OOPs? So, take this wireless mouse. Explain what would be abstraction and what would be encapsulation.

Sir: So are you saying that only the buttons are abstraction and everything else is encapsulation

Sir: Are you saying that what I can see on the mouse is encapsulation and what I cannot see is abstraction?

Discuss this a bit more and move to next question

Sir: what do you understand by class?

Sir: Look around the room, pick something that is a class.

Question: 2-sum Problem, return the indices of first pair that is equal to target (very easy)

Noted all the keywords of the ques, asked about the input etc. I planned on using an unordered map

Sir: Why map?

I explain the entire approach to him. In map, the key represents the element and value represents the index. I explain why it will give the correct answer and discuss the time and space complexity.

Sir: Can you do better?

Puzzle: You have 3 boxes. One has red balls, one has pink balls and one has red+pink balls. The boxes are named incorrectly. How many balls do you need to take out to figure out the correct labelling?

Sir: Any questions for me?

Me: Many. Being in the industry for years, I want to know how did you face the challenges in your initial years? This was my first interview; I couldn't even sleep properly yesterday. How do you deal with such things on a daily basis?

I haven't worked on large scale projects yet, how did you approach a new project assigned to you?

What should be the mindset of freshers about entering the industry. What qualities should I try to inculcate to learn and grow?

Link to detailed interview experience:

https://docs.google.com/document/d/1mXjasOPu5gO9zDHrb7-fWOADImvnHd8Rmgg9M5W1N_I/edit?usp=sharing