

A lot of people were asking me about my interview experience at Deutsche Bank and what all questions they asked, so here we go:

There were 4 rounds in all :

1) Coding Round :

It was held on Sunday, 13th September on Hackerearth. The participants were asked to keep their webcams on. There were 10 MCQ questions on DSA, OS, DBMS, OOP, CN concepts for 4 marks each along with 2 coding questions for 25 marks each. More than 100 people appeared for this round and 16 were taken forward.

A few MCQ question:

- a) Postfix traversal of an expression
- b) Space complexity of a simple code with one array and an iteration over it
- c) Semaphores used in producer-consumer
- d) Deadlock
- e) What is ping
- f) What is a foreign key

I got about 7-8 of these correct.

Coding questions:

- 1) An easy question with a simple if-else solution. This didn't take much time and was easy enough.
- 2) Given an array, find the minimum cost of jumping out of the array. You can either jump 2 indices forward or 1 index backwards and the cost of a jump from the index i is $a[i]$. It was a basic dynamic programming question. My solution passed 7/10 test cases.

2) Technical Round:

This one was held on Tuesday, 15th September over Skype Business and lasted for 45 mins. The interviewer was friendly, appreciative and made sure that I was comfortable. Out of 16, 9 people cleared this round.

Here are a few questions:

- a) Introduce yourself
- b) What is OOP? What are classes and objects?
- c) What are the access specifiers in c++ and what do they do?
- d) What is the difference between static and dynamic variables in a class?
- e) Can static functions be called from inside of a non-static function?
- f) Write a psuedo code to calculate all the occurrences of a particular number in a given array. I was asked to share my screen and write it on notepad. I was asked to explain it along with the time complexity.

- g) Write a psuedo code for calculating the factorial of a given number. I wrote the dynamic programming approach solution. He asked me to write the recursive solution too.
- h) What is threading?
- i) Find the next number in the series 1, 2, 5, 10, ?
- j) What is the difference between http and https
- k) What is hashing (I didn't give a satisfactory answer)
- l) BFS and DFS
- m) Left traversal and right traversal (I accepted that I couldn't answer this question. He changed the question immediately)
- n) What are your hobbies?
- o) How often do you travel? Situational questions on this.

Based on my resume :

- a) What does async mean in Nodejs?
- b) Can you access the DOM from Nodejs?
- c) Explain the async queue.
- d) Why is Nodejs so popular?
- e) A few queries using MongoDB
- f) How and why do you use git?
- g) What is 'Actions' on Github? (I couldn't answer this)
- h) What is SSH option for cloning a repository?
- i) How are REST APIs different from other web APIs?

It went good mostly. I could answer most of the questions.

3) Professional fitness round:

Also held on 15th September, this was a level up of the previous round. It lasted for 20-30 mins.

- a) Questions based on my internship project
- b) Difference between SQL and NOSQL. Which one should be used where?
- c) How to create tables in NOSQL? (A trick question. NOSQL doesn't contain tables)
- d) A few SQL queries. How will you find the 5th largest salary without ordering the rows. (Couldn't answer this)
- e) Something called Dataframe or similar (Couldn't answer this either)
- f) A few MongoDB queries. Follow up question - how will you ensure that this query be executed fast enough given a million entries at least? (Again trick question)
- g) What do you do in your free time after college?

I gave a satisfactory performance in this round, according to me at least.

4) HR Round:

Also held on the same day, it lasted for about 20 minutes. The HR person and I had a really good chat and she was impressed by the end of it. All the people who appeared for the last

round, also appeared for this one and then 5 on 9 people were selected based on both of these rounds.

- a) Introduce yourself
- b) As a part of all the clubs, narrate an incident where you faced a difficulty and how did you overcome it? A good conversation followed this question.
- c) Why Deutsche?
- d) What are the 2 values that you cherish the most? I said one of them was loyalty.
- e) Narrate an incident where you depicted loyalty. We had a nice chat after this one too.

This round went amazing. The whole point of it is to just keep the conversation going and they test if you are clear about your ideologies.

After each round they ask if you have some questions for them. Make sure to ask at least one question. Not asking a question creates a uninterested kind of impression.