

Dolat Capital Placement Experience

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Class:- D20B

CGPI :- 9.04 (Till Sem 6)

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Date of drive : 24/07/2024 & 25/07/2024

Branches Eligible: BE (CMPN, & INFT)

Eligibility Criteria: Current graduation Aggregate CGPI 8.00 & above
65% and above in 10th,12th & diploma , No live ATKT.

CTC :- 13.50 LPA (Fixed – 8,50,000 LPA) + (Retention-5,00,000 bifurcated as, Rs 50,000/- after completion of every 06 months for 05 years).

Total Students Registered :- 150+

Role Offered :- SDE (C++ Developer)

NOTE:- Highly DSA focused and C++ is preferred over JAVA.

Round 1:- Online Coding Test & Technical MCQs

There were two sections:-

- a) Technical MCQs:- 6 MCQs of easy difficulty
- b) Coding round :- 3 DSA questions (1 Easy , 2 Medium)

1.Museum Visit:

N students enter the Museum in an orderly fashion, they need to leave the Museum in

the same order. Two arrays A and B were given representing the entering and exiting order of the students. If any student overtakes another while leaving, he'll be punished but only once. Return the number of punished students.

2.Find GCD

3. Don't remember the exact question but it was based on recursion and dynamic programming.

Solve atleast 1 question completely and make sure to pass 2 out of 3 testcases of the other 2 questions to qualify for the next round.

Round 2:-Coding Round (Pen & Paper)

Only 15 out of 150 were selected for this round.

A single coding question to be solved based on OOPS and using appropriate Data Structures.

Question was to print top 5 buy and sell orders each time an order(buy/sell) is placed.

HINT:- Use Maps and make sure to use "static" wherever required.

Round 3 :- Technical Interview

Only 8 were selected for the interviews

Again heavily focused on DSA , OOPs and Pointers in CPP.

- 1) What is Object Oriented Programming?
- 2) Four pillars of OOPs.
- 3) Explain inheritance and different types.
- 4) What is encapsulation and abstraction?
- 5) What is polymorphism, different ways to achieve it.
- 6) What are virtual functions and pure virtual functions?
- 7) What is a constructor and destructor?
- 8) Questions on dynamic memory allocation using malloc, calloc and realloc and new keyword.
- 9) What are pointers and references?
- 10) Different types of pointers.
- 11) Questions on implementing pointers.

DSA questions:-

1. Implement Stack using Queue (using single queue , double queue , push heavy implementation, pop heavy implementation).

<https://leetcode.com/problems/implement-stack-using-queues/description/>

2. Delete a node in LL.

<https://leetcode.com/problems/delete-node-in-a-linked-list/description/>

3. Delete a node in LL given the address of the node to be deleted.

4.Symmetric Tree

<https://leetcode.com/problems/symmetric-tree/description/>

5.LCA of a node in Tree

<https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/description/>

6.Find Maximum in Rotated Sorted Array

<https://www.geeksforgeeks.org/maximum-element-in-a-sorted-and-rotated-array/>

7.Number of Islands

<https://leetcode.com/problems/number-of-islands/description/>

8.Find Median in Infinite Stream of Integers

<https://leetcode.com/problems/find-median-from-data-stream/description/>

Interviewer expects you to give a brute force approach and move towards the optimal approach.

Don't hesitate to tell about the approach you are thinking about, interviewers do help you to go in the right direction.

Round 4:- HR Round

Basic question about your family background and how you would commute daily to the office.

**ONE OF THE TOUGHEST INTERVIEWS TO CRACK ONCAMPUS.
YOU HAVE TO GRIND YOUR DSA TO A PRETTY GOOD LEVEL.**

Resources:-

DSA:-

<https://www.youtube.com/@takeUforward>

Make sure to complete as much as possible.Would take around 6 to 8 months.

C++:-

<https://www.youtube.com/playlist?list=PLDzeHZWIZsTryvtXdMr6rPh4IDexB5NIA>