b'

# Amazon Interview Experience for Internship 2021 (On-Campus)

- Difficulty Level :\nMedium
- Last Updated :\n03 Nov, 2020

Amazon visited our campus (NIT Jamshedpur) in September 2020. Around 120 candidates were shortlisted for round-1.

**Round 1:** This round was an online coding round held on AMCAT. It consisted of 4 sections.

1. **Code Debug (20 mins):** It had 7 questions which were quite easy.
2. **Coding (70 mins):** It consisted of 2 coding questions.
    - **Question 1:** Merge two sorted linked lists.
    - **Question 2:** Given a list of N packing crates in the facility, any of which is a candidate to be moved to the new facility. The truck is initially at the origin of capacity M. Return the list of M locations closest to the truck.
3. **Work Styles Assessment (10-15 mins):** It was based on amazon leadership principles.
4. **Logical ability (35 mins):** \xc2\xa0MCQs based on aptitude

30 candidates were selected for the next round.

**Round 2(One-to-One Interview)** We were provided an amazon chime link for the meeting. First of all, the interviewer introduced himself and asked me to introduce myself. Then he asked me 2 coding questions.

1. Given 2 strings a and b. a represent the first lane in which vehicles move from left to right. The b represents the second lane in which vehicles move from right to left. Vehicles can be B (bike), C (car), T (truck). collision will occur only between two trucks. Find the probability of collision.

    **Example:**

    ```
    a = TCCBCTTB\r\nb = BTCCBBTT\r\ntotal number of collisions=7\r\nProbability of collision = 7/36
    ```

    First I gave the simple solution (time complexity: O(N), space complexity: O(N) ), he told me to write the code and then asked me the optimised approach. So I gave a constant space and linear time complexity algorithm and improved the earlier code.

2. Given a binary tree having unique values and an array *arr* of integers. Return a list of root nodes of every component of the tree after deleting the nodes which are present in arr. I told the O(N) time complexity approach then he asked me to code it. We discussed the edge cases, and I was able to write the full code. He seemed satisfied at this time and asked me to give the brief intro of the project I mentioned in my resume within 30 seconds.\xc2\xa0

Then we had a 5-10 minute discussion on the questions I asked him. The interviewer was very friendly.

I was expecting to be shortlisted for round-3, but 10 candidates(including me) were offered an internship after the round-2 itself.

My Personal Notes\n*arrow_drop_up*

Add your personal notes her

Save

'