

**Tanmay Saxena ( MCA 2019 - 22 )**

**Amazon Interview Experience ( 6M Internship + FTE )**

**ONLINE ASSESSMENT -**

**A) DEBUGGING (20 mins) –**

You will be given around 7 debugging questions which will be extremely simple. You only have to correct the code to pass all test cases.

**B) CODING (70 mins) –**

1. Amazon website contains one to many items in each page. To mimic the logic of the website, an Amazon programmer has a list of items and each item has its name, relevance and price. After sorting the items by [name:0, relevance:1, price:2], the programmer is trying to find out a list of items displayed in a chosen page.

Given a list of items, the sort column, the sort order(0: ascending, 1:descending), the number of items to be displayed in each page and a page number, write an algorithm to determine the list of item names in the specified page while respecting the item's order. Page Number starts from 0.

Read more about it here :

<https://leetcode.com/discuss/interview-question/1412479/amazon-online-assessment-fetchitems-todisplay>

2.

<https://www.geeksforgeeks.org/count-number-of-substrings-with-exactly-k-distinct-characters/>

**C) WORK STYLE ASSESSMENT (20 mins) –**

There will be a lot of behavioral questions you will have to answer it by moving a slider to the left/right to indicate how well it describes you. You need to answer these questions with care as well as they are equally important for amazon.

**D) APTITUDE & REASONING (35 mins and 24 ques) –**

There is enough time and no negative marking, so solve all the questions.

**A total of 35 students were shortlisted**

## **INTERVIEWS -**

### **ROUND 1 -**

Started with introduction and then we started off with dsa problems

Q1.

<https://www.geeksforgeeks.org/find-height-of-a-special-binary-tree-whose-leaf-nodes-are-connected/>

Q2. <https://leetcode.com/problems/maximum-number-of-weeks-for-which-you-can-work/>

The first one was straightforward. For the second, the interviewer gave me hints, i was initially thinking in wrong direction but he helped me to get back on the track and i ended up finding the solution and also coded the same.

### **ROUND 2 -**

Started with introduction and then we discussed about one of my projects (around 4-5 mins only), and then we moved to dsa questions

Q1. <https://www.geeksforgeeks.org/find-a-tour-that-visits-all-stations/>

Q2. <https://www.geeksforgeeks.org/connect-nodes-at-same-level/>

Both the questions were standard questions, for the first question, i first started with an  $O(n^2)$  approach, then we went to  $O(n)$  with extra space and at last i was told to optimize the space as well, so i did it and also coded the space optimized version .

For the second one, i discussed only one approach and was asked to code it.

### **ROUND 3 -**

Started with introduction , followed by project discussion in depth, a lot of behavioural type question based on my project and also i was asked to show a working demo of features that i have implemented, after that we were left with 30 - 35 mins , so only one dsa question was asked.

Q1. <https://leetcode.com/problems/lru-cache/>

I was asked to write the production level code in one go, so i started with my implementation using the concept of classes and was explaining each and every line in detail, after completing the implementation, were some follow up questions about making this code more modular, and then i was asked to find out and rectify the bugs in my code if any, i was only asked to discuss about the rectifications that i can do.

**12 students were finalised ( 7 FTE + 5 Internship )**

**TIPS -**

1. Always try to join the call 5-10 mins earlier and see if everything works fine ( screensharing, webcam etc).
2. Ask clarifying questions a lot, and always discuss your approach first, don't jump directly to the coding part.
3. Spread positivity throughout your placement season,you all will need it.
4. Rejection is a part of the placement process.
5. Assume that you can be asked anything from your resume in detail.
6. The interviews are more like a healthy discussion not an exam.