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## **Amazon Interview Experience (6M Internship)**

### **ONLINE ASSESSMENT -**

#### **A) DEBUGGING (20 mins) –**

At the beginning itself, you will be asked your preferred programming language. You will be given around 5 debugging questions accordingly. These are extremely simple. You only have to correct the original approach, **NOT** change/optimize it. In all the programs, you won't need to modify more than 2 lines and in some, only a single character has to be changed.

#### **B) CODING (70 mins) –**

1. <https://leetcode.com/discuss/interview-question/370157>

2. <https://www.geeksforgeeks.org/count-of-ways-to-split-a-given-number-into-prime-segments/>

The question set is random. For most candidates, 70 minutes was enough but I was unlucky to get these 2 problems. I wasn't able to complete the second one.

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

There will be a lot of behavioral questions like "I follow a strict schedule" and you will have to answer it by moving a slider to the left/right to indicate how well it describes you. I answered them honestly (mostly) without thinking too much. Who knows, this might work for you too.

#### **D) APTITUDE & REASONING (35 mins) –**

There is enough time and no negative marking, so solve all the questions. One advice – these will be some questions where you'll have a paragraph to read before 3-4 questions are asked from them - **DON'T** skip these.

35 students were shortlisted

## **INTERVIEWS (60 mins each) -**

### **ROUND 1 -**

Q1. <https://www.geeksforgeeks.org/find-paths-given-source-destination/>

Q2. <https://www.geeksforgeeks.org/given-a-number-find-next-smallest-palindrome-larger-than-this-number/>

The first one was straightforward. For the second, the interviewer gave me hints in form of test cases. I improved my approach each time but the time ran out when I was very close to completion. He asked me if I had any queries but I didn't ask any.

### **ROUND 2 -**

Q1. Given an array of number-strings, find second largest.

Q2. <https://www.geeksforgeeks.org/sum-of-bit-differences-among-all-pairs/>

The first one was straightforward. For the second, I discussed and coded the  $O(n^2)$  brute-force solution. Then, the interviewer asked me to optimize it to  $O(n)$ . I took a lot of time but couldn't figure it out. Later, he gave me a hint and I was able to immediately solve it. He asked me to make some micro-optimizations in the new  $O(n)$  solution and we were done.

### **ROUND 3 -**

Q1. <https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/> (Variation with an array of [0, 9], instead of string)

Q2. <https://www.geeksforgeeks.org/check-if-a-given-array-can-represent-preorder-traversal-of-binary-search-tree/>

This round was the worst for me even though I solved both the questions. In the first one, the interviewer was asking for  $O(1)$  space solution. But, I did not give up and tried to somehow utilise the input array as the extra space. There were a few behavioural questions in the middle. For the second problem, because I had never encountered it, I gave a straightforward recursive solution which is not optimal. Throughout this round, the interviewer did not feel convinced.

12 students were finalised (7 FTE + 5 Internship)

### **TIPS -**

1. Spread positivity throughout your placement season. You all will need it.
2. Rejection is a part of the placement process.
3. Assume that you can be asked anything from your resume in detail.
4. Don't try to anticipate the outcome of your interview (or anyone else's).
5. The interviews are more like a healthy discussion not an exam.
6. If you have not yet decided your programming language, go with Java.