Amazon SDE-1 FTE/6 Months Internship Experience \xe2\x80\x93 AmazeWow 2021

- Difficulty Level :\nMedium
- Last Updated :\n04 Mar, 2022

Online Coding Test: The test consisted of 28 MCQs primarily focused on C/C++ outputs, data structures, OOPS Concepts.

Two coding questions were also asked:

- 1. Given an equation of the form X + Y = Z where one of X, Y, Z is missing, find the missing variable\xe2\x80\x99s value.
- 2. Count Derangement (Permutation such that no element appears in its original position)

After clearing the coding test, I had virtual interviews.

First Round: It was a coding round. Three coding questions were asked.

1. Find the number of page faults given cache size \xe2\x80\x98n\xe2\x80\x99 and the page replacement algorithm is LRU.

\xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

```
n=12341234567856785678 k=4 \r\nOutput:1234
```

\xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 3. Given various time slots, find the minimum number of blocks required to schedule deliveries.

\xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0 \xc2\xa0

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Time slots: [1,3], [2,4], [16,20]\r\nOutput: 2
```

Second Round: This was also a coding round. Two coding questions were asked.

1. Given a dictionary where the values are the connections of the key. Find if a person A can send a connection request to person B. A person can only send a connection request if the number of connections between the two people is at most \xe2\x80\x98k\xe2\x80\x99.

```
Input: \{1:[2,3,4], 4:[5,6],6:[7,8]\} k=1 A=1 B=8\r\nOutput: NO
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\xc2\xa0 \xa0 \xc2\xa0 \xc2\xa

\xc2\xa0 \xc

Third Round: This round was a technical round as well. One coding question and multiple concept based questions were asked.

1. Given a number \xe2\x80\x98n\xe2\x80\x99, construct all the possible structurally different binary trees(not BST)

Other questions that were asked were:

- 1. Difference between semaphore and mutex
- 2. Discussion of deadlock conditions, deadlock prevention, and recovery
- Normalisation
- 4. Converting a given table to 2NF then 3NF and BCNF.

Fourth Round (Bar Raiser): This round was a mix of behavioral + technical questions.

It started with a discussion of my internship project. Then the following questions were asked.

- 1. Tell me about a time when you learned something on your own. Why did you learn it?
- 2. Tell me about a time when you had a conflict with your teammates and how did you handle it.
- 3. Tell me about a time when you were stuck at something. How did you handle it?

A few other questions regarding teamwork were asked

One coding question:

1. Given a list of dependencies of a module, print the build order of that module.

```
Input: A-> B,C,D | B-> C,F | C->E Print build order of A\r\nOutput: E C F D B A (Multiple correct answers were po
```

I discussed the DFS approach and was asked to code it. The interviewer was satisfied with my approach.

After waiting for two weeks, I got my results. I was offered an FTE + 6 months internship.

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