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Amazon Interview Experience

- Difficulty Level :\nEasy
- Last Updated :\n22 Aug, 2021

Hello Coders, This is my Interview Experience for the position of SDE1 at Amazon (2019).

Round 1 (Online Round): 2 Coding Questions and 28 MCQ\xe2\x80\x99s

1. Let 1 represent \xe2\x80\x98A\xe2\x80\x99, 2 represents \xe2\x80\x98B\xe2\x80\x99, etc. Given a digit sequence, count the number of possible decodings of the given digit sequence. (https://practice.geeksforgeeks.org/problems/total-decoding-messages1235/1)
2. Given Equation for num1, num2, and X in the form of a string, and you have to find the value of X in the string.

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   Ex- String is 100000+200000=X\r\nX will be 300000\r\nString is 100000+X=500000\r\nX will be 400000
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I Solved both the coding Questions.

Be prepared with all pointer concepts and how to return the char string, etc.

Round 2 (Algorithm Round): I was told to introduce myself. Then he directly went on to the question. The question was :

1. Given a square chessboard of N \xc3\x97 N size, the position of the Knight and the destination are given. You need to find out the minimum steps a Knight will take to reach the Destination and print the path for the same. (https://practice.geeksforgeeks.org/problems/steps-by-knight5927/1)

Initially, they give me a basic BFS solution that looks at all 8 K Knight modes that will take O (N \xc3\x97 N) Time.

I was told that I had done well in the code as a wise decision-maker. I don\xe2\x80\x99t know what the interviewer was expecting. I was thinking of the A * Search Algorithm that discarded a particular combination but lost the solution (meaning it comes close to the solution in a very short time, used by Google Maps).

I did not expect to qualify for this cycle. But luckily I was called to the next round.

Round 3 (Algorithm Round): The interviewer was very chill. In the beginning, I introduced myself to her, and then she introduced herself. I was supposed to give a brief description of any one of my Project(10 min).

1. Given a linked list, write a function to reverse every k node. (https://practice.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-given-size/1)
2. Given a Binary Tree, find the deepest leaf node that is left child of its parent. (https://www.geeksforgeeks.org/deepest-left-leaf-node-in-a-binary-tree/)

Round 4 (Fundamental + Algorithm): Initially, I introduced myself. The interviewer was very calm. He asked me about my Subjects. Then the fundamental knowledge was checked in depth. Ex-

- Paging / Virtual Memory
- CPU Scheduling Algorithm
- Deadlock / Semaphore / Critical Section
- Working of OSI Layers(CN)
- What happens if I type \xe2\x80\x98google.com\xe2\x80\x99 as URL. Explain the whole process.

Round 5 (Tech Round): The person you were interviewing was very knowledgeable. First I introduced myself. I was told to describe any of my projects, and he told me how he would improve the project now.

He then asked me one question of the tree \xe2\x80\x93 I was shaking my head, and I was just smiling, my interviewer thought I knew the question and asked me if I knew the question or not, and I said yes (even the question was unfamiliar but don\xe2\x80\x99t do this I was lucky at the time

Then he swapped the question. And asked this \xe2\x80\x93

1. https://www.geeksforgeeks.org/check-whether-the-two-binary-search-trees-are-identical-or-not/

I was supposed to just tell the Algorithm orally. Then he asked me about my interests.

My Personal Notes\n*arrow_drop_up*

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