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Amazon Interview Experience

- Difficulty Level :\nEasy
- Last Updated :\n08 Mar, 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://www.geeksforgeeks.org/count-possible-decodings-given-digit-sequence/)
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.

\xc2\xa0Be 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 :\xc2\xa0

1. Given a square chessboard of N x N size, the position of Knight and the destination is 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://www.geeksforgeeks.org/minimum-steps-reach-target-knight/)

Initially, they give me a basic BFS solution that looks at all 8 K Knight modes that will take O (N * 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://www.geeksforgeeks.org/reverse-a-list-in-groups-of-given-size/)
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 interviewer was a highly experienced person. Firstly I introduced myself. I was told to explain any one of my projects, and he told me that how will you improve the same project now.

Then he asked one tree question \xe2\x80\x94 I was feeling headache, and I was just smiling, the interviewer thought that I was familiar with this question and asked me that whether I am familiar with the question or not, and I said yes(even the question was not familiar to me but don\xe2\x80\x99t this I was lucky at that 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.

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