Amazon Interview Experience | Set 288 (On-Campus)

Difficulty Level :\nMedium
Last Updated :\n05 Jul, 2019

Amazon visited our campus for SDE-1. Interview process started with an online coding round followed by 4 Face to Face Interviews. All Interview rounds started with brief introduction about me.

Online Round:

A hackerank contest with 22 questions inclusive of 2 coding problems and 20 MCQ\xe2\x80\x99s on OS, DBMS, Networking and C/C++.

Coding Questions:

- 1. Given a 2d array with only elements $\xe2\x80\x98\#\xe2\x80\x99 \& \xe2\x80\x98.\xe2\x80\x99 .$ \xe2\x80\x98 \xe2\x80\x99 represents cherry and \xe2\x80\x98.\xe2\x80\x99 represents nothing . Can you divide the array into 2 halves with equal cherries . You can only make a single cut either horizontally or vertically .
- 2. Sliding Window of size k . Find max of each window.(no need of optimization, Brute-Force was accepted).

F2F 1 (1 hr 20 min, TECHNICAL):

- 1. Find floor of a number in a sorted array. Production code was required.
- 2. Given a number k, Find no. of ways to make this number using sum of numbers from 1 to k-1. Constraints: You cannot take same number more than once in a combination (for eg: k=6, {1,1,4} can not be considered in solution) and also all permutations of a combination count as one way (for eg: if k= 6, Then all permutations of (1,2,3) count as one way only). (Solution: Recursion, DP)

F2F 2 (40 min, DIRECTOR + TECHNICAL):

- 1. Given an API :- bool isValidWord(string) and a list of sentences. For each word in a sentence, you have to print all the substrings and reversed substrings in that word which are valid (validity of a string is checked by above API).
- 2. Discussion on Egg Drop Puzzle.
- 3. What happens when you type www.amazon.com in your Browser.

F2F 3 (1hr, TECHNICAL):

- 1. Given a linked list, write a function to reverse every alternate k nodes. Need to handle all the Corner cases .
- 2. Given millions of sorted lists and a God Processor that can work on infinite threads at a time, make a sorted list using all the elements of given lists considering the advantage provided by such a processor.

(My approach 1: use Priority Queue, but he said that only one thread can use the PQ at a time.

My approach 2: use technique similar to Merge Sort).

F2F 4 (1 hr 20 min, TECHNICAL):

1. Given a robot which is on Origin in a number line and a string that contains either

2. Discussion on data structure used for dictionary, Hash table vs Trie, collision handling in hash tables.

Print all the substrings of a given string that are present in the dictionary. Then he asked to optimize the solution. Then I used technique similar to Rabin-Karp algo + Hashing assuming collision is not a problem. Interviewer was satisfied after this solution. Code was not required.

Interview tips: Interviewers don\xe2\x80\x99t want most optimized solution. They see how you approach a question, Interact with interviewer if you get stuck, don\xe2\x80\x99t jump directly to code, think loud and be confident.

A big thanks to GeeksforGeeks and other online judges.

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All Practice Problems for Amazon!

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