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Amazon Interview Experience | Set 165 (For SDE I)

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I received interview call from amazon.com (Bangalore) for SDE1 position for 1.5 year experience.

Round 1: 1 hour written test at amazon office.

Q1. Given a set of strings, find the alphabets common to all strings.
<I used Hashmaps>

Q3. [Longest Palindromic subsequence in a given string.](#)

Q3. [Find LCA of two nodes in a binary tree](#)

Round 2: F2F 1.5 hour

Given a huge file with large number of words, code a function that would take a word as input and print all anagrams of that word present in the file as output. Function has to be really really fast also $O(1)$ run time. You are allowed to take as much time and resources for pre processing the file once. But after pre-processing function should perform in $O(1)$ time.

<Use hashmap, and fact that all anagrams have similar alphabetical order of letters>

Create a hash function for above.

He then asked, another way instead of Hash ?

How to optimize searching among this linked list of heads of other linked lists.

Round 3: F2F 1 hour

Only one question [Print leftmost and rightmost node at every level of binary tree.](#)

Round 4: F2F 1 hour

[Given a string with some \$0/1\$ where ? can be 0 or 1. Print all possible strings by substituting ? with 0/1.](#)

Eg: I/p Amaz??n,

o/p Amaz00n, Amaz10n, Amaz01n, Amaz11n

[Connect all nodes of a binary tree which are at same level.](#)

Round 5: Telephonic 1.5 hour

Write a code (online shared collab document) [to check whether a tree satisfies children-sum property.](#)

Write a code (online shared collab document) to convert a given tree to a tree that satisfies children-sum property.

Some questions related to Operating Systems

Major difference between thread and process
CPU Scheduling difference between process and threads.
Necessary and sufficient conditions for a deadlock Deadlock

Suppose you have a list of 1 billion integers, find 1 million largest integers in this list.
List can have repetitive elements, max memory limit is 1 million numbers

Asked to calculate time complexity for my algorithm

Round 6: F2F 1 hour

Discussion on current work. You must know what you are working on in detail as you would be grilled

Top 3 features I would put on a website portal if I'm launching a cab service. (Non-technical)

Write code for scheduling algorithms for such a cab services provided you have a list of future bookings, and list of cabs in your fleet.

<I was asked to write OOP paradigm code>

Tips:

Try to interact continuously with interviewer. Keep thinking aloud and keep discussing with interviewers your ideas and approaches

Prepare Data structures, in particular binary tree very thoroughly.

Hope this helps.

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[All Practice Problems for Amazon](#) !

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