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Amazon Interview | Set 26

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Hi, I am Mayur Kale, I was recently interviewed for SDE1 position for Amazon in our campus and got selected. Geeksforgeeks helped me lot. I prepared only from Geeksforgeeks.org. I am very thankful to Geeksforgeeks team.

Onw online coding test followed by 4 rounds of F2F interviews.

Online Coding Test (2 Problems, 20 MCQs, 1:30 hours) From Interviewstreet

All problems had multiple test cases for which the code was validated against.

1. [from input string we have to print character which occurs maximum number of times.](#)

Face to face: Round 1(Technical, 1 hour):

1. Given a boolean matrix $mat[M][N]$ of size $M \times N$, modify it such that if a matrix cell $mat[i][j]$ is 1 (or true) then make all the cells of i th row and j th column as 1 (time complexity expected was $O(M*N)$ and space $O(1)$)

Solution: [Boolean Matrix Problem](#)

2. [Given binary tree, if we draw a line from root then we have to print all nodes on that line.](#)

Code for both questions was required and some other discussion happened..

Face to face: Round 2(Technical, 1 hour):

1. [Given string we have insert %20 on each space and input string has enough memory to contain output string.](#)

(time complexity expected was $O(n)$ and space was $O(1)$).

2. [merge point of linked list.](#)

(I told I know this question so he moved ahead..)

3. [Given binary search tree in array form and we have to check whether it is fully binary tree or not..](#)

(I gave $O(n^2)$ solution but He was expecting $O(n)$ solution after some discussion I managed to give answer in $O(n)$ complexity)

4. [Given that integers are read from a data stream. We have to find k maximum elements from that stream..](#)

(I gave solution of insertion sort, then come to heap)

code for all questions required and nice discussion was there

He was very impressed with my answers

Face to face: Round 3(Technical, 1 hour 20 minutes):

-He asked me to choose topic on which questions should ask..

I chose OS

-some questions on paging and virtual memory.

-If we use 8 GB RAM for 32 bit machine what will happen?

It was nice question..

He was very impressed with answer.

-Some discussion on Networking(DHCP and DNS).

-Some discussion on Linker and Loader.

-Some discussion on JAVA.

-Some discussion on DBMS.

-one puzzle

A champagne pyramid is a pyramid made of champagne glasses , each of equal capacity say , n. The pyramid begins with one glass at the top level , two glasses at the second level , then three below that and so on up to infinite levels. A level x of the pyramid thus has x no. of champagne glasses.

A steady stream of champagne is poured down from the top level, which trickles down to the lower levels. What is the distribution of champagne in the glasses at a given level i.
(I told I know this puzzle then he moved ahead..)

-Give a Building with n floor. A person can take 1 step or 2 step to climb. Find the number of ways to reach nth floor. Code was required

Interviewer was very happy after that.

Face to face: Round 4(Technical, 1 hour 20 minutes):

It was like semi HR round.

1. Why Computer science?
2. [Given an array of integers which is initially increasing and then decreasing, find the maximum value in the array.](#)
3. Modified k heavy path in binary tree problem.

In evening they told me result and I got selected in amazon. It was very nice experience for me.

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This article is compiled by **Mayur Kale**. Many Many congratulations to him. If you like GeeksforGeeks and would like to contribute, you can also write an article and mail your article to contribute@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks.

[All Practice Problems for Amazon !](#)

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