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Amazon Interview Experience | Set 173 (On-Campus)

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Recently I appeared for On-campus Amazon Interviews for SDE position and here is my experience.

Round 1: 1.30 hour Online Written Test

It had 20 MCQ questions on C/C++ and 2 coding questions. The coding questions were:

Q1. You are given a string that represents an expression of digits and operands. Eg. $1+2*3$, $1-2+4$. You need to evaluate the string or the expression. NO BODMAS is followed. If the expression is of incorrect syntax return -1.

Test cases :

- a) $1+2*3$ will be evaluated to 9.
- b) $4-2+6*3$ will be evaluated to 24.
- c) $1++2$ will be evaluated to -1(INVALID).

Also, in the string spaces can occur. For that case we need to ignore the spaces. Like :- $1*2-1$ is equals to 1.

Q2. [You are given an array of both negative and positive integers. You need to rearrange the array such that positive and negative numbers alternate.](#) Also, the order should be same as previous array and only $O(1)$ auxiliary space can be used and time complexity $O(n)$.

eg. -2 3 4 5 -1 -6 7 9 1

result 3 -2 4 -1 5 -6 7 9 1.

Round 2:

Q1. [Given a Linked list, print yes if it is palindrome else print no.](#)

Q2. [Print the level order traversal of the binary tree in the spiral form.](#)

Round 3(F2F):

Discussion about project.

Some question on DBMS, OS.

Q1: [Maximum of all subarrays of size k](#) (Expected Time Complexity $O(N)$).

Input :

arr[] = {1, 2, 3, 1, 4, 5, 2, 3, 6}

k = 3

Output :

3 3 4 5 5 5 6

Q2: [Given Two sorted array of size size n each. Find the Kth largest element in these two array](#) (Expected Time Complexity $\log(n)$)

Round 4(F2F)

Detail Discussion about project

Q1. website having several web-pages. And also there are lot many user who are accessing the web-site.

say user 1 has access pattern : $x \rightarrow y \rightarrow z \rightarrow a \rightarrow b \rightarrow c \rightarrow d \rightarrow e \rightarrow f$

user 2 has access pattern : z->a->b->c->d

user 3 has access pattern : y->z->a->b->c->d

user 4 has access pattern : a->b->c->d

and list goes on for lot many users which are finite and numbered.

Now the question is we have to determine the top 3 most occurring k-Page-sequence.

for the above example result will be : (k=3) a->b->c , b->c->d , z->a->b.

Q2: [Given two array , one of size m+n and contains m element and other position are empty , 2nd array is of size n and contains n element.both array are sorted , now merge the second array to first one such that the resultant array is sorted.](#) Expexte time complexity(m+n).

I would like to thanks geeksforgeeks for providing such a platform to learn algorithm and data structures

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[All Practice Problems for Amazon !](#)

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