Accolite Interview Experience | Set 13 (On-Campus for Internship and FTE)

Accolite visited our campus for recruiting Full time employees as well as interns. The process started with pre-placement talks and then we had to undergo a 5-round process.

Round 1: Online (30 min)

The first round was conducted online,which consisted of MCQ's covering C, C++, OS, DBMS. We had to answer 20 questions, and yes there was a negative marking (-0.25) for each wrong answer.
Around 650 people took the online test and 75 people were selected for the next round.

Round 2: Paper Coding (1 hr)

We were asked to code the following questions on paper:

1. Print shortest path to print a string on screen
2. Find zeroes to be flipped so that number of consecutive 1's is maximized
3. Serialize and Deserialize a Binary Tree

Out of the 75 people who took this test 20 were shortlisted.
We then had 3 technical interviews on the next day.

an array of first N number

Efficiently merging two sorted arrays with O(1) extra space and O(NlogN + MlogM)

Find XOR of all elements in an Array

Split the given string into Primes : Digit DP

Number of pairs in an array with the sum greater than 0

Count of subsets with sum equal to X using Recursion

Check if sum of Fibonacci elements in an Array is a Fibonacci number or not

Count of subarrays of an Array having all unique digits

Round 3: F2F interview (2 hrs)

I was the first person to be shortlisted and so I was interviewed by the Senior Technical Director of the company. She asked me about my favorite data structure to which I replied Trees. So she asked me to do a zig-zag level order traversal of a binary tree.

1. Level order traversal in spiral form
2. She then gave a string in the encoded form and asked me to find the k'th character in the string without decoding it.
   For example:
   Input: Encoded string is "a9b21c5" and k=27
   Output: 'b'
3. She then gave me a real-time problem which she faced last week and asked me to provide a solution and code it.

Check if an array is sorted and rotated using Binary Search

Maximum number of unique values in the array after performing given operations

Count of subarrays having exactly K perfect square numbers

Move all zeroes to end of array using Two-Pointers

Search an element in a sorted and rotated array with duplicates

Longest alternating subsequence in terms of positive and negative integers

Minimum salary hike for each employee such that no employee feels unfair

Scenario: There is an API which receives data from a socket which is fetched using a buffer. There was no guarantee of how much data is read through the socket (i.e. the first time 5 characters may be read, the second time 20 characters may be read). The data to be read consisted of an HTTP header and a message to be displayed. The header was separated from the header by means of a delimiter(here it was “000|”). I had to write a code which discards the HTTP header and displays the message alone considering the fact that there was no way of finding out how many characters were read by the socket.
She concluded by asking about my projects.

Round 4: F2F interview(1.30 hrs)

The interview asked me to code the following questions:

1. Trapping Rain Water
2. Given a linked list and an integer ‘k’, I had to rotate the linked list.
   (Note: Reversing a linked list is different)
   Input : 1->2->3->4->5->6->7->8->9->10 and k=4
   Output: 4->1->2->3-> 8->5->6->7->9->10
3. He gave me a string represented by a binary tree(each leaf node is a character) and a random function that might swap any number of internal nodes of the binary tree(just like mirror). I had to find out if the string (represented by the tree)returned after the randomized function call is a valid permutation of the original string.
   Eg: **Input:** “golden” and “gloned” where gloned is the string returned after calling randomized function.

Most popular in Arrays

Count of substrings of length K with exactly K distinct characters

How to flatten a Vector of Vectors or 2D Vector in C++

Count number of increasing sub-sequences : O(NlogN)

Median of an unsorted array using Quick Select Algorithm

Longest sub-array with maximum GCD

Minimize the maximum difference of adjacent elements after at most K insertions

Maximum LCM among all pairs (i, j) from the given Array

Minimum number of operations to convert array A to array B by adding an integer into a subarray

Output: True
Input: “golden” and “gnlode”
Output: False

Round 5: F2F interview(1.30 hrs)

The interviewer gave me two scenarios and asked me to write an algorithm for both.

Scenario 1:

I had to reach Paris from Chennai by flight. He wanted me to find the best possible way to reach Paris. I told him that I would use Djikstra’s algorithm based on distance, one solution based on time and one solution based on both distance and time(using weighted averages). He then asked me to minimize the number of points to be considered at each intermediate vertex. I told him to use the latitude and longitude to find the direction of the destination and consider points accordingly. He then asked me to draw a line between the source and destination and asked me to consider only points which were inside an inclination of 30 degrees of the line drawn. I gave him a solution and he was satisfied.

Scenario 2:

He asked me to assume there were 100 airports in my city and he asked me to suggest an algorithm for choosing the airport given the destination and the timings of each flight at each airport. He then asked me to incorporate the significance of “traffic” while I travel from my current location to the airport and asked me to design accordingly.

Real-time application of Data Structures

Replace every element of array with sum of elements on its right side

Longest subarray whose elements can be made equal by maximum K increments

Count of subarrays of size K with elements having even frequencies

Count of subarrays which start and end with the same element

He asked me if I had any questions for him, to which I posed a lot of questions regarding the company's structure, clients and any pre-requisites to be learnt before I could join the company.

The results were anounced later in the evening and I got selected!!!

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.

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above

All Practice Problems for Accolite !

Recommended Posts:

Accolite internship interview experience off campus

UHG Interview Experience | OnCampus- 2019

MathWorks Interview Experience (EDG, Oncampus)

ServiceNow Interview Experience Oncampus

InfoEdge Interview Experience | OnCampus-2019

Accolite Interview Experience | Set 23

Accolite Interview Experience | Set 8

Accolite Interview Experience | Set 21

Most visited in Internship

Amazon Interview Experience for SDE intern | On Campus (December 2019)

Microsoft Summer Internship Off Campus 2020

Fidelity Investments Interview Experience (Internship On-Campus 2019-20)

Amazon Interview Experience for Internship

Accolite Interview Experience | Set 22

Accolite Interview Experience (On-campus)

Accolite Interview Experience Off campus (AHC 4.0)

Accolite Interview Experience | Set 19 (On-Campus)

Accolite Interview Experience | Set 9 (On-Campus)

Accolite Interview Experience | Set 5 (On-Campus)

Accolite Interview Experience | Set 18 (On-Campus)

Accolite Interview Experience | Set 4 (On-Campus)

Accolite Interview Experience | Set 20 (On-Campus)

Accolite Interview Experience | Set 15 (On-Campus)

Accolite Interview Experience | Set 10 (On-Campus)

Accolite Interview Experience (On-Campus)

Article Tags : **Arrays** **Internship** **Interview Experiences** **Linked List** **Recursion** **Stack** **Tree** **Accolite**

Practice Tags : **Accolite** **Linked List** **Arrays** **Recursion** **Stack** **Tree**

1

4.1

Based on **6** vote(s)

To-do Done

Virtusa Interview Experience | Internship

Feedback/ Suggest Improvement | Improve Article

Please write to us at contribute@geeksforgeeks.org to report any issue with the above content.

Previous
Informatica Interview Experience | Set 4 (On-Campus)

Next
Cisco Interview Experience | Set 11 (Network Consultant Engineer)

Writing code in comment? Please use ide.geeksforgeeks.org, generate link and share the link here.

Load Comments