

Paytm Interview Experience

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Online Coding Round :

1. Given an array A, find the number with the maximum occurrence of digit k.
Input: A = [1, 2, 212, 322, 123], k = 2
Output: 322
2. <https://www.geeksforgeeks.org/a-boolean-matrix-question/>
3. Given 2 trees, T1 and T2, check whether T2 is a subtree of T1 or not.
 - 1). If either of the trees is NULL, return -1.
 - 2). If T2 is not a subtree in T1, return 0.
 - 3). If T2 is the subtree in T1, return the number of nodes in T2.

Technical Round 1 (45 mins) :

The interviewer started with my introduction and then asked me about my projects. I explained one of my projects to him in brief. Then he started with the coding questions.

1. Middle of a linked list. He asked me how it works.
2. An array is given. All elements occur once except one element (it occurs twice). Return the index of that element. Remember to ask the range of numbers in questions like this. I made a mistake of not asking it and coded for range 0 to n-1 (negation technique) . Then he gave me an example of random numbers, that's when I realised I should have asked the range. Then he made me dry run my code on an example which consisted of numbers in range 0 to n-1.
3. Boundary traversal of a binary tree.
4. Given an array of integers you have to find three numbers such that the sum of two elements equals the third element.

Technical Round 2 (45 mins) :

1. Minimum Number of Platforms Required for a Railway/Bus Station.
<https://www.geeksforgeeks.org/minimum-number-platforms-required-railwaybus-station/>
2. Maximum width of a binary tree.
<https://www.geeksforgeeks.org/maximum-width-of-a-binary-tree/>
3. Given a string S, return the "reversed" string where all characters that are not a letter stay in the same place, and all letters reverse their positions. He asked me to code this one specifically on <https://ideone.com/> .
<https://leetcode.com/problems/reverse-only-letters/>
4. What is a compiler ?
5. He asked some SQL queries based on join.

Technical Round 3 (30 mins) :

1. Return true if a given element is present in a row wise and column wise sorted matrix, otherwise false.
<https://www.geeksforgeeks.org/search-in-row-wise-and-column-wise-sorted-matrix/>
2. Difference between overloading and overriding. There was quite a good amount of discussion on this with the help of examples.
Also, how to call a parent class function from a derived class function?
3. Explain different types of CPU scheduling algorithms.
4. Difference between deadlock and starvation.

Have faith in yourself :)

All the best !!