

TRUMINDS SYSTEM SOFTWARE

Interview Experience

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M.Sc. Computer Science (2021 – 2023)

Round 1-Online Assessment round. (2hrs)

18 MCQs based on OS, DBMS, Data Structures, Aptitude(Easy level)

1 Coding Question :

Platform: HackerEarth - They sent a practice test link as well on which we could familiarize ourselves with the platform before the actual test.

Coding question is at last.

Round 2- Technical Interview (45 min)

Platform: MS Teams

- ✚ Starting with my Introduction
- ✚ Context switching in Operating System
- ✚ Difference between Process and Thread
- ✚ Tell about Context Switching.
- ✚ What are pointers in C++
- ✚ Null pointer, void pointer
- ✚ Basics about Stack, queue
- ✚ Basics about Priority queue
- ✚ Basics about Hashmap(just tell the key, value pair syntax in STL)
- ✚ Basics about Max heap, Min heap
- ✚ Middle element in linked list ...just tell the approach

<https://www.geeksforgeeks.org/write-a-c-function-to-print-the-middle-of-the-linked-list/>

- ✚ Try catch block in JAVA
- ✚ Final, finally, finalize in JAVA
- ✚ Function overloading, Function overriding
- ✚ How to dynamically allocate array?
- ✚ Coding Question on IDE:
 - Write a program for reverse a linked list...since time was less so he said to do another coding Question.
<https://www.geeksforgeeks.org/reverse-a-linked-list/>
 - Write a program to print first 10 Fibonacci number.
<https://www.geeksforgeeks.org/program-for-nth-fibonacci-number/>
- ✚ He asked me if I have any question.
I asked him about his experience in the company

Try to have in-depth Knowledge on : DSA, OOPS, NETWORKING, OS

Round 3 - Technical Interview + HR Round

(30 mins)

Platform: MS Teams

Interview with V.P.

- ✚ Tell about your academics i.e. your 10th, 12th, bachelor's, and masters.
- ✚ What is RPC?
- ✚ Abstraction in Java(I told them how to implement them In both java and C++)
- ✚ Interfaces in Java
 - Can we make another interface from existing interface?
 - Can we make multiple interfaces from abstract class?
- ✚ How code gets executed in Java.
- ✚ What is a .jar file in Java.
- ✚ Doubly linked list, Circular Linked list(Discussion in Brief)
 - Real World Application of DDL
<https://www.geeksforgeeks.org/applications-advantages-and-disadvantages-of-doubly-linked-list/>
- ✚ From where are you...tell something about your Hometown?
- ✚ In which field you want to work if you get selected:
 - I Said: I Don't have any particular specification. I just want to develop my skills so that I can grow myself. And through that I can contribute in the growth of organisation as well.
 - He replied: Very Good
- ✚ He asked if I had any questions for him?(Always ask the questions from the interviewer related to the company, this shows your interest towards their organisation.)
 - I Asked him about the work-culture of the company and what projects they usually give to fresher

"Me, along with 11 other members got selected for Intern + FTE."

Coding Question:

Q) Prime Palindrome

You are given an integer P and an array Queries of length Q.

The array queries will have Q integers each denoting an individual query.

Task: For the ith query, the integer be denoted by queries[i].

Now you need to calculate the number of distinct arrays of length less than or equal to queries[i] such that :

- Each array element is some prime number.
- The product of all array elements is not greater than P
- The array formed is Palindromic in structure.

Example

P=3

Q=1

Queries=[1]

Approach

The max product of array elements is P=3

You have only 1 query

For this query queries[i]=1

Only array [2] and [3] are valid because they have length not greater than 1 and the product not greater than P=3.

Hence, answer is [2].

I don't remember the whole question correctly but the concept was similar to this.

SUGGESTION:

- **Be Confident, Communicate well, level is very easy all they see is your confidence and communication skills.**
- **READ ABOUT THE COMPANY IN DETAIL BEFORE THIS ROUND.**
- **TRY NOT TO SAY “I DON'T KNOW ABOUT THIS TOPIC”. IF YOU DON'T KNOW THE ANSWER OF THAT QUESTION TRY TO ANSWER THINGS THAT ARE RELATED TO THAT QUESTION**
- **DON'T THINK WHETHER YOU WILL GET OFFER OR NOT. JUST TRY TO GIVE YOUR *BEST*.**
- **LUCK PLAYS A BIGGER ROLE THAN HARD WORK IN ON-CAMPUS PLACEMENTS. SO, DON'T GET DEMOTIVATED IF YOUR LUCKY DAY HASN'T COME YET**

ALL THE BEST!!!