Truminds Interview Experience

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Course: M.Sc. Computer Science
Batch: 2022-2024

Round 1 - Online Assessment (90 minutes)

Platform: HackerEarth
No. of questions = 17 (16 MCQs + 1 Coding)

MCQs based on - Aptitude, OS, CS Fundamentals, Program output and Find errors on C, C#, Java

1 Coding question (on Strings).

28 students were selected in this round.

Round 2 - Technical Round (1 hour)

The interview was conducted at the department.

The interviewer started by reading my resume. He asked for my introduction and read some of my projects which interested him. He asked me questions from the same.
Puzzle one: Given an equilateral triangle, we have three ants placed at each vertex which are allowed to move only along the edges. They can start moving in any direction. What is the probability that the ants will never meet.
Puzzle two: We have a drawer that contains black socks and white socks shuffled. What is the minimum and the maximum number of attempts in which we will be able to pick a pair given that we are picking one socks at a time without looking.

Then, he began asking technical questions.
The following technical questions were asked:

- What is memory leak in C/C++?
- What data structures I know? He asked me to explain every data structure I knew along with their respective practical implementation.
- Next, the interviewer asked me to write a code. The problem was that given an array with some values, print all the missing numbers in chronological order. First, I was asked to give a brute force approach and then the optimal approach along with it's time complexity.

- Some general questions on OSI model layers.
- Basic OOPs question- Encapsulation and Polymorphism.
- Explanation of heap memory.
- Explanation of different kinds of memories in Operating System.
- What is the output of this code:

```
void func(int n)
{
        if(n>0)
        {
                cout<<"Hi";
                func(--n);
        }
        cout<<"Hello";
}

int main()
{
        func(7);
        return 0;
}
```

- Next, he asked me write a SQL query. He showed me the tables of Customers and Orders and asked me to display the names of all customers who have ordered.
- Given two numbers n1 and n2. Write a program to print all the prime numbers in the range [n1, n2], n1 &n2 inclusive.

At last, he asked me about my family, where do I belong to and we had a little conversation about my hometown.

Some students also gave round 3.

Verdict: Selected for Internship + FTE