

TRUMINDS, Gurugram

Name: Yash Ruhela

MCA(2021-24)

Round 1-Online Assessment round. (90 mins)

Total marks : 100 (50 for MCQs and 50 for coding question)

16 MCQs based on OS, Data Structures, Aptitude(Easy

level) 1 Coding Question :

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

question:

Given a string S1 of length L1 of uppercase alphabets only and a string S2 of length L2

consisting of chars 'T' and 'F' only.

Generate a lexicographically smallest string S of length (L1+L2-1) such that a substring of length

L1 starting at index i ($0 \leq i \leq L2$) is equal to S1 if and only if i-th element of S2 is 'T' else not.

If no such string can be generated, print "-1".

Example input : - S1 = "ABCA" ,output :- ABCAAAA

S2 = "TFFF"

Round 2- Technical Interview round (45 mins)

(taken by senior software engineer of the company)

- Started with my introduction and hobbies.
- He asked me [N-queens problem](#). (cause I mentioned chess as my hobby).
- Discussion on one of my projects.
- Explain tcp/ip model? Working , use and protocols of each layer.
- What is arp and rarp? (at which layer do they belong).
- Why do we need mac address when we have ip address?
- Some database concepts like functional dependency, trivial functional dependency.

Round 3- Technical Interview round (40 mins)

- Started with my introduction.
- Is it faster to insert a node in sll or in dll (if pointer to the node is given whose next pointer should be pointing to new inserted node)and why?then asked me to implement it.Same for deletion.
- How internet works.
- What is Three way handshake?
- All the network commands you know?with use case and what do they print on terminal.
- Basic of socket programming?Order of calls on server side and client side.
- Sql query to retrieve student's name with second highest marks.(with explanation)
- What do you know about cloud and cloud computing?
- What is dhcp?
- In which field I am interested?

Verdict – selected for intern + FTE