Ciena Interview Experience (C Language)

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Round – 1 : Online Assessment

75 mins, 6 sections, Platform - Codility

Section 1, 2, 3 – Quantitative Aptitude Questions

(Difficulty Level – Very Easy)

Section 4, 5 – Debugging

Given code in C, modify at most 1 line (section 4) or at most 2 lines (section 5) to make it work for the given problem statement.

(Difficulty Level - Easy)

Section 6 – Writing complete code for a given problem in C.

Problem Statement – Given an integer N (1 <= N <= 500), return the smallest integer > N such that sum of the digits of the returned no. is at least twice the sum of the digits in N.

(They were only interested in the correctness of the solution and not the time & space complexity, so a brute force solution was enough, and so this was also an easy section.)

Round – 2 : Technical Interview

- Brief Introduction
- Had a brief discussion on one of my projects
- A lot of programming and conceptual question on pointers were asked, like
- Constant pointers
- pointer to constant,
- 1d, 2d array pointers
- Array of pointers
- Memory allocation of pointers
- Pointers manipulation
- Storage classes related question were asked
- Linked list based question : https://leetcode.com/problems/add-two-numbers/

- Brief discussion on priority Inversion in operating system

Round – 3 : Technical Interview

- Brief Introduction
- A lot of conceptual and very basic questions on computer networks were asked like
- How internet works?
- How to two computers in your lab will communicate?
- Explain internet in one line.
- Internet providers , data centres, switching centres etc.
- Write complete working code for insertion sort algorithm, a lot of theoretical question on sorting were asked.

- String based question : https://leetcode.com/problems/reverse-words-in-a-string/
- String based question : https://leetcode.com/problems/reverse-words-in-a-string-ii/
- He asked me to design requirement modules for chatgroup application
- He asked me to build 16 bit cpu , what all we required to build 16 bit cpu ?

Conclusion

- Whenever you feel you don't know the answer , you should try to build answer using related topics sometimes it works.

- For mostly all companies having a very good core knowledge of CN, OS, DBMS, C++, JAVA is important.

- yarnav111@gmail.com can reach out for any interview related help.

All the best!