Ciena Interview Experience (C – Profile)

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Round – 1 (OA) (75 minutes – on Codility Platform)

Java Profile Assessment had 2 programming questions.

C Profile Assessment had 6 tasks :-
    Task – 1 and **Task – 2** (MCQ - Aptitude questions)
    Task – 3 (1 Output question in C language)
    Task – 4 and **Task – 5** (2 questions – Found and Fix Error)
    Task – 6 (Coding Question)

Questions were very easy you can clear the OA with very basic knowledge of DSA and Aptitude.

Around 40 students were shortlisted for interview rounds.

Round – 2 (Technical Interview – I) (60-90 minutes)

The interviewer started the interview by asking how much are you comfortable in networking and then asked the following questions:-

(a) What is Network ?

(b) What do you understand by links?

(c) What is a topology and various types of topology with advantages and disadvantages of each.

(d) On which topology your institution is connected.

(e) OSI and all layers of it and devices use in each layer.

(f) Difference b/w routers, switch and hub.

(g) Difference b/w IPV4 and IPV6.

(h) What do you understand by the term process. How programs and process are different from each other.

(i) What is thread and how they are different from process.

(j) Which one is faster multiprogramming or multiprocessing or multitasking and why?

(k) What is critical Section and what are the problems related to it.

(l) Solution to critical section problem.

(m) Producer Consumer problem.

(n) Difference b/w mutex and semaphore explain using code.

(o) Difference b/w C and C++. How much would you rate yourself in C programming out of 10 (my ans - 7).

(p) What are static variable, static functions and where they reside inside the memory.

(q) Series of Output questions were asked regarding pointers, bitwise operators and static variables functions.

(r) Check wether a number is even or odd without using if/else.

(s) Check wether a number is power of 2 without loops.

(t) Done with my side wanna ask something.

Round – 3 (Technical Interview – II) (60 - 90 minutes)

Interviewer started the interview by asking what do you know about Ciena and why do you want to join Ciena?

Then he started asking questions about the future of the company and how you will be a good fit at Ciena.

Then he asked me about your preferred programming language to which I replied C++, then he asked me difference b/w C and C++.

He started telling me about the company and the work culture at Ciena and benefits of joining Ciena.

Questions :-

(a) What are pointers in C++?

(b) What is the difference b/w pointers and reference?

(c) What are static variables and where they are stored?

(d) What is PCB and what it contains?

(e) Output questions on char and string in c?

(f) Sizeof Operator?

(g) Scenario based questions on multi-threading and multi-tasking.

(h) Design a macro to set the nth bit of a number without using bitwise and.

(i) Find number that occurs a single time and rest occurs twice .

(j) Puzzle two find minimum no. of measurement to find odd ball out of 8.

(k) Then he started discussing about my project of compiler design .

(l) Linkage and loading .

(m) Phases of Compiler.

(n) Types of Compiler and intermediate code generation .

(o) That's it from my end ..

12 students were given intern + FTE offer.