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Qualcomm Interview Experience | (Pool Campus Drive)

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Around 30 students attended the Round 1 (B.Tech + M.tech of my college)

Round 1: Online Test
It has 3 sections. Each section has 20 questions \xc2\xa0with +1 for correct answer and \xe2\x80\x93 0.25 for wrong answer.

Section I: (Aptitude)
Questions were from following areas/topics:
1. \xc2\xa0\xc2\xa0Works and wages
2. \xc2\xa0\xc2\xa0Time and distance
3. \xc2\xa0\xc2\xa0Pie chart
4. \xc2\xa0\xc2\xa0Data Interpretation

There were some 1-2 other topics also.

Section II: (Programming- C based objective)
Questions were based on the following topics:
1. \xc2\xa0\xc2\xa0Pointers and typecasting of them.
2. \xc2\xa0\xc2\xa0Operators precedence and associativity
3. \xc2\xa0\xc2\xa0Recursion
4. \xc2\xa0\xc2\xa0Static variable
5. \xc2\xa0\xc2\xa0Structures
6. \xc2\xa0\xc2\xa0Reference variable
7. \xc2\xa0\xc2\xa0Macros

Section III: Technical (Branch wise questions)
For me, I opted Computer Science option according to my branch.

Questions were to test one\xe2\x80\x99s technical knowledge of CS Subjects (Gate level questions)
1. \xc2\xa0\xc2\xa0OS based questions (Threads, synchronization)
2. \xc2\xa0\xc2\xa0C / C++ based questions
3. \xc2\xa0\xc2\xa0Computer Architecture based

\xc2\xa0 2-3 more topic questions.

Each section was of 30 minutes. After 30 minutes, the timer expires for that section and next section comes.(You cannot switch between sections and cannot go back to previous section even), so manage your time wisely. Attempt as much questions as you can taking care of negative marking.

After Round 1, \xc2\xa07 students were selected for further rounds.

For all further round, they called all 7 students of my college for further interviews to their Hyderabad office. Qualcomm made all travel arrangements/expenses for attending the interviews .

Round 2: \xc2\xa0Technical (1:1 interview) \xe2\x80\x93 50 min.

It was a pool campus drive for Full time employment \xc2\xa0(Batch 2019 B.Tech / M.Tech).
Students from 3 colleges were called at Qualcomm \xc2\xa0office (Hyderabad): IIIT Delhi, Nirma

University and Lovely Professional University.
Around 40 students were called.

Questions:
1. \xc2\xa0\xc2\xa0Tell me about yourself
2. \xc2\xa0\xc2\xa0Rate yourself in OS.
3. \xc2\xa0\xc2\xa0What do you \xc2\xa0know in OS.
4. \xc2\xa0\xc2\xa0What is process, thread? Difference Between process and thread.
https://www.geeksforgeeks.org/operarting-system-thread/
5. \xc2\xa0\xc2\xa0What resources does a process use?How does the process \xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0resources information is
maintained?https://www.geeksforgeeks.org/operating-system-process-table-process-control-block-pcb/

6. \xc2\xa0\xc2\xa0What resources do threads use?https://www.geeksforgeeks.org/operarting-system-thread/
7. \xc2\xa0\xc2\xa0What should we do if we do not want to share a file among threads?

8. \xc2\xa0\xc2\xa0What are locks?https://www.geeksforgeeks.org/lock-variable-synchronization-mechanism/
9. \xc2\xa0\xc2\xa0What is mutex ?What is semaphore? Difference between them.
https://www.geeksforgeeks.org/mutex-vs-semaphore/

10.Mutex vs Binary semaphore? Are they logically equivalent
?https://stackoverflow.com/questions/62814/difference-between-binary-semaphore-and-mutex

11.What is virtual memory \xc2\xa0and why do we use it?https://www.geeksforgeeks.org/virtual-memory-operating-systems/

12.What is demand paging? How to map logical to physical
address?https://www.geeksforgeeks.org/virtual-memory-operating-systems/
13.Which address is known to CPU?

14.What \xc2\xa0is volatile keyword? Why do we need
it?https://www.geeksforgeeks.org/understanding-volatile-qualifier-c-set-1-introduction/https://www.geeksforgeeks.org/understanding-volatile-qualifier-in-c/

15.What is static variable ?Show by example.https://www.geeksforgeeks.org/static-variables-in-c/
16.Where does static variable get stored?https://www.geeksforgeeks.org/memory-layout-of-c-program/
17.What is static function?
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0https://www.geeksforgeeks.org/what-are-static-functions-in-c/
18.What is Dangling pointer?
https://www.geeksforgeeks.org/dangling-void-null-wild-pointers/
19.What is memory leak? Give example by code. In what scenario \xc2\xa0\xc2\xa0
memory leak is critical and problematic? https://www.geeksforgeeks.org/what-is-memory-leak-how-can-we-avoid/

It is critical where the system reboot is infrequent and are very costly
affair . Example: servers

20.Rate yourself in C
21.Set ith bit of a number ? Input is the number and position . Check all \xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0 invalid input cases. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Set the K-th bit of a given number

\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Invalid cases like inputting \xc2\xa0wrong position.

22.Reset ith bit of the numberhttps://stackoverflow.com/questions/47981/how-do-you-set-clear-and-toggle-a-single-bit

Round 3: Technical (1:1 interview) \xe2\x80\x93 40 min

1. \xc2\xa0\xc2\xa0Check whether a number is power of 2 or not (Using Bitwise operators)
2. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Find Middle node of singly linked list (All unoptimised /optimised ways)

3. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Memory map of the process.https://www.geeksforgeeks.org/memory-layout-of-c-program/

4. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Tell me about process scheduling algorithms?What is round robin algorithm?https://www.geeksforgeeks.org/gate-notes-operating-system-process-scheduling/
5. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Spinlocks vs mutex vs semaphorehttps://practice.geeksforgeeks.org/problems/explain-spin-lock
6. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Tell about bitwise operators. Asked some questions on it.https://www.geeksforgeeks.org/bitwise-operators-in-c-cpp/
7. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Print odd number by one thread and even no by other.How u will
implement it ?
I told him using semaphores, wait() and signal()

8. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0C programming output question: Based on various type of pointer typecasting.
9. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0C programming output question: Based on local vs global variable precedence.
10. \xc2\xa0\xc2\xa0\xc2\xa0What is priority Inversion?
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0https://www.geeksforgeeks.org/priority-inversion-what-the-heck/
11. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Structure padding and packing. Who do this padding and packing(compiler, cpu etc.)?
https://www.geeksforgeeks.org/structure-member-alignment-padding-
and-data-packing/
12. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Internship work discussion
13. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Why did you do the teaching for 5 years and then did M.Tech? (I taught to Undergraduate students in GEHU, Dehradun \xc2\xa0for 5 years)
14. \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0Then Interviewer asked do you have any questions for me?
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0 I asked about his work and his team at Qualcomm .

Round 4: HR interview -20 min

1. \xc2\xa0\xc2\xa0When did you arrive at office?
2. \xc2\xa0\xc2\xa0Didn\xe2\x80\x99t you attended the Qualcomm drive when we came to your college \xc2\xa0\xc2\xa0\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0for your batch?
3. \xc2\xa0\xc2\xa0Why reason do you think that you were not able to \xc2\xa0qualify Online test at that time and you qualify this time?
4. \xc2\xa0\xc2\xa0Do you like the work which the interviewer has discussed with you?

5. \xc2\xa0\xc2\xa0Reasons for doing Teaching Job for 5 years?
6. \xc2\xa0\xc2\xa0Discussion about family
7. \xc2\xa0\xc2\xa0Discussion about relocation.

After 2 days, result came to Placement office and I was selected .
Feel free to ping me for any help at www.linkedin.com/in/dilip-kumar-gangwar

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