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Microsoft Interview experience | Set 105 (Global Delivery)

- Difficulty Level :\nMedium
- Last Updated :\n28 Jun, 2021

Online-screening test: It was of around 90 minutes and was divided in 3 individual tests as follows:

- **1st test:** Non-technical **mcq**(40 minutes: 40 questions)
  Quantitative aptitude mcq including questions on percentages, ratios, speed/distance, ages, pie charts, probability etc. Questions on vocabulary, coding/decoding, round table arrangements, sentence correction, Statements and conclusion etc. were also present. Questions were easy but lengthy. I solved around 70% of them.
- **2nd test:** Technical mcq (30 minutes: 30 questions)
  Questions were from dbms, c, data structures (mainly binary trees), OS and Networking. Questions like whether relational calculus is procedural or non-procedural language, tell no of leaves if no of internal nodes is given in binary tree etc. Practice them from GeeksQuiz.
- **3rd test:** Essay writing test (20 minutes: one essay 250-300 words)
  Need to write essay on the topic : \xe2\x80\x98Is social media a right platform to discuss political issues\xe2\x80\x99 Topic was not same for all. Others got topic like: \xe2\x80\x9cCricket is declining other sports\xe2\x80\x9d, \xe2\x80\x9cInternet is everything\xe2\x80\x9d etc.
  After this online test, they shortlisted 36 out of more than 100 students.
  Then there were 3 rounds of interviews; every round was elimination round.

Round 1: Technical interview (70 -80 min)
Interviewer asked favorite subjects apart from data structures and algorithms. I told him dbms and oops.

1. Define joins in SQL and explain them. I explained him inner, left, right and outer join. Then he asked me about axis join.
2. \xc2\xa0Define keys. Surrogate keys, primary keys, foreign keys, candidate keys and super keys. Then he named around 4 more keys which I didn\xe2\x80\x99t know.
3. \xc2\xa0What is encapsulation? Explain with example. How is it useful?
4. \xc2\xa0If one class B is inheriting a class A which has a private function, what keyword will you append in function definition to use that in class B? I said by making that function friend. Some more follow up questions on it.
5. Convert binary tree to doubly linked list (https://www.geeksforgeeks.org/in-place-convert-a-given-binary-tree-to-doubly-linked-list/)
6. Longest incremental subsequence (https://www.geeksforgeeks.org/dynamic-programming-set-3-longest-increasing-subsequence/
7. \xc2\xa0Swap two numbers without using temp variable: Asked 3 approaches (https://www.geeksforgeeks.org/swap-two-numbers-without-using-temporary-variable/)
8. \xc2\xa0Check linked list is palindrome or not(https://www.geeksforgeeks.org/function-to-check-if-a-singly-linked-list-is-palindrome/)
9. \xc2\xa0In-place rotate n*n matrix to 90 degrees (\xc2\xa0https://www.geeksforgeeks.org/inplace-rotate-square-matrix-by-90-degrees/)
10. \xc2\xa0Find two rectangles overlap (https://www.geeksforgeeks.org/find-two-rectangles-overlap/)
11. \xc2\xa0Print 1 to 100 without using recursion and loops. Give generic solution
12. \xc2\xa0Test cases for water bottle. And some more questions on strings and software testing which I am not able to recall.

2nd round Tech + HR: (50- 60 min)

Basic HR questions. Where do you see yourself in 5 yrs, why do u want to join Microsoft etc. Print all prime nos from 1 to 100. Design elevator algorithm which responds in least possible time. SQL query to find nth highest salary of an employee. Explain IOT in layman terms, cryptography, software testing methods, how do you handle stress, strategy to study the tough subject, what if we do not select you etc. Discussion on my projects.

3rd round: HR (60 \xe2\x80\x93 65 min)

Tell me about yourself, discussion on my projects, why I used a particular technology in project, what other technology I could choose, asked almost everything from the resume, priorities in life, why Microsoft, what people say about you: positives, negatives and how you are working on it, what if we don\xe2\x80\x99t select you etc. Interviewer was awesome and it was fun talking to him.

My whole experience was amazing. Study DBMS, SQL and data structures thoroughly. Also do give a look at puzzles. If you do not know anything, say no simply. Be confident.

I would like to thanks GeeksforGeeks.org and GeeksQuiz a lot for wonderful collection.

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Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above

All Practice Problems for Microsoft !

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