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Editorialist YX SDE1 Interview Experience

(Keep yourself motivated throughout the process)

ROUND 1: Online Coding Test (2 hour)

Platform : mettl Language : C, C++, PYTHON, JAVA, C#

Total Questions : 40 General Mathematical Aptitude 20 Technical Questions (C,C++,OS,Networks)

Coding Question

1). Check balanced parentheses

https://www.geeksforgeeks.org/check-for-balanced-parenthesesin-an-expression/

2). Minimum Jump To Reach End

https://leetcode.com/problems/jump-game-ii/

3). Longest palindromic substring

https://leetcode.com/problems/longest-palindromic-substring/

4). Check BST Note :

https://www.techiedelight.com/check-given-keys-represents-same-bsts-not-without-building-bst/

Points to remember-

- Dont guess any MCQ because negative marking is there.
- Clear your basics of computer fundamentals for MCQs.
- 3 out of 4 coding questions along with decent amount of MCQs are enough to clear the round.
- Divide your time properly for all sections.

*First of all , don't judge a round by the amount of time taken to complete it.

Technical Round 1 (1 hour 40 minutes)-

- The Interviewer in this round was really helpful. He Introduced himself and started with the discussion.
- Project related questions were asked.
- No Need to brag about the things you have done.
  (JITNA JARURI HAI UTNA HI BOLO).

1. **Concatenate two lists in O(1) space?(It was in one of our MCQs)**
   - Don't assume the lists , clear it out with the interviewer –"what kind of lists?".
   - Ask Questions if you have any doubt. Interviewer will definitely answer.

   My Solution-

   https://stackoverflow.com/questions/25938499/linked-list-concatenation-in-o1-time#:~:text=You%20can%20concatenate%20two%20singly,works%20with%20doubly-linked%20lists.

2. **Puzzle-(100 lion 1 sheep)**
   https://www.geeksforgeeks.org/puzzle-will-sheep-safe/

3. **Puzzle-(Mixed Labels)**
   https://www.geeksforgeeks.org/puzzle-mislabeled-jars/

Technical Round 2: (1 hour 30 minutes)-

The Interviewer was polite and started with introducing himself.

1. **Print Left View of Binary Tree.**
   https://www.geeksforgeeks.org/print-left-view-binary-tree/

2. **What Protocol does Google Meet use?**
   - I answered for stability it may use TCP/IP.(Half Correct).

- He corrected me by saying It uses both TCP and UDP.
- UDP is for video calling. Tcp for initial connection establishment.

3. **Serialize and Deserialize Binary Tree.(It took me about 30 minutes to solve)**
   https://www.geeksforgeeks.org/serialize-deserialize-binary-tree/

TECHNICAL ROUND 3: (1 hour 30 minutes)

- Interviewer started with introduction of mine and his.

- Asked about what projects have I done.

- Some discussion about my projects.

1. **Convert a BST into Balanced BST**
   https://www.geeksforgeeks.org/convert-normal-bst-balanced-bst/.

2. **Puzzle (FAKE COIN)**
   https://www.geeksforgeeks.org/decision-trees-fake-coin-puzzle/

TECHNICAL ROUND 4: (1 hour 40 minutes)

- This was taken by the head of company himself.
- He was helpful and threw out of the box questions which no one suspected.
- Interview started with the introduction of him and I.

1. **Make NOR gate using NAND gate using DeMorgans Law.**
   - Didn't remember De-morgans law ,so the interviewer told me some of its equations.
   - Was finding it really difficult to derive.
   - Tried every approach and finally came up with a working derivation.

2. **Puzzle-(100 lion 1 sheep)**
   https://www.geeksforgeeks.org/puzzle-will-sheep-safe/

3. **Puzzle-(similar to Distribute red balls)**
   https://practice.geeksforgeeks.org/problems/probability-puzzle

4. **Write a code for DFS**
   - Don't assume the dfs for anything.
   - Clear that should the dfs be for Tree or Graph.
   - If Graph-> Directed or Undirected.
   - Assumptions are the only thing you should not do.

      https://www.geeksforgeeks.org/depth-first-search-or-dfs-for-a-graph/

5. **Puzzle –(count number of squares and rectangles in 11X11 chess board)**
   - Start from smaller ie 2X2 chess board.
   - Try to build the solution.
   - The Interviewer will try to give you a bait like lets leave this ques-> **" DON'T EVER LEAVE"**
   - Even if you are not getting anywhere ⮲ Try and Try.

      (I was not able to solve this question)

Points to remember-

- Don't Assume anything, clear it out with the person sitting in front of you.
- Don't brag about yourself.
- Don't giveup on any question. Even if you are unable to solve it, try and ask the interviewer for a hint.
- Be honest about your resume.
- Know your atleast 2 projects really well⮲ All the PROS AND CONS of the tech stack you used.

   *LUCK PLAYS A CRUCIAL ROLE IN SELECTION, BUT IT CAN'T DO ANYTHING IF YOU HAVEN'T WORKED UPON YOURSELF FIRST.

   GOOD LUCK !!