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Amazon Interview | Set 123 (On-Campus for Internship)

- Difficulty Level :\nMedium
- Last Updated :\n24 Jun, 2019

Online round: In this round there were 20 MCQ\xe2\x80\x99s to solve and 2 coding question. Of the 20MCQ\xe2\x80\x99s a couple of questions were on Quantitative aptitude, relationships, OS, DBMS, Data structures etc. there was negative marking for every wrong answer so I attempted only 15 for which I was sure.

Q1- find the first non repeating character in a string.

Q2- given a binary tree where each node has some weight. You have to return the max weight in the binary tree.
Maxweight = value of root node + value in its left subtree and right subtree.

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\r\nEx  - 2\r\n   /   \\  \r\n  -1    3\r\nOutput = 4
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1st round(50 mins):
Q1. Reverse link list in k chunks
Interviewer was first interested in approach then he asked me to code.

Q2. Spiral order traversal of binary tree
I first told him 2 stack approach but he asked me to do without stack .Then I gave him a solution using one queue and one stack and he finally asked me to code both the approaches.

Q3. Longest palindromic substring
I first used DP but he asked me to do O(1) space complexity. I was unable to do so.

2nd round :
Q1. Connect sibling pointer in a binary tree
Connect Nodes at Same Level
https://www.geeksforgeeks.org/connect-nodes-at-same-level-with-o1-extra-space/

Q2. Push ,pop and min operations in O(1)

He asked me to do middle operation also and then he asked me to code 2nd problem.
https://www.geeksforgeeks.org/design-a-stack-with-find-middle-operation/

Q3. Given n point in a 2d plane ,find k distant nodes from the origin.
I told him min heap approach and he was satisfied.

Q4. Problem statement was very long but it was topological sorting.

I used adjacency list representation, he asked me why
And finally asked me to code it.

Overall it was a very nice experience interviewing with them.

Some tips:

- Never give up
- Don\xe2\x80\x99t start with coding ,first explain the approach.
- Be honest

- https://www.geeksforgeeks.org/ \xe2\x80\x93 my guidebook.

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All Practice Problems for Amazon !

My Personal Notes\n*arrow_drop_up*

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