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Microsoft Interview Experience SDE 1 off campus (8 months exp)

- Difficulty Level :\nExpert
- Last Updated :\n04 May, 2019

1st round was skype interview:
Question 1 : Given a bst find 4 numbers which sum upto a given number .
without using extra space

Answer: Convert bst to dll and use 2 pointers approach O(n^3)

Question 2 : It was based on BST also, don\xe2\x80\x99t remeber the question.

From 2nd round onwards it was on Microsoft Hyderabad campus:
Round 2:
Question 1: Given a rowwise and column wise sorted matrix find number of negative elements in it.
Expected time complexcity O(n).

Answer: Start from bottom left element and if element is negative move right and if positive move up counting the number of negattive elements in a row and keeping boundary condition in mind.

Question 2: Given a Array of String encode that array into a String such that decode function can decode using the encoded String only.

Answer : For each String add Length of string a delimiter and String to encoded String.
If String is \xe2\x80\x9cabcd\xe2\x80\x9d
add 4#abcd to encoded String

Round 3:
Question 1 : Given a binary tree and a list of nodes to be deleted, find the root node of each tree after deletion

For ex if tree is

```
\r\n            1\r\n         /  \\\r\n        2    3\r\n      / \\\r\n     4   5
```

and node to be deleted is 2, then answer will contain 1, 4, 5
O(n) single traversal.
Answer using postorder traversal.

Question 2: Given Dictionary of words and mobile Keypad, given number find all dictionary String starting from it.
https://www.geeksforgeeks.org/find-possible-words-phone-digits/ similar to this

Question 4:
Based on transforming 1 String to another, using graphs.

Round 3 : Manegerial Round:
General HR questions:
Why should we hire you?
Why do you want to change?
What do you do apart from projects?
One Technical Question:
Sort 50 GB large file of words.
Sorted chunks and then used heap.
Then told about the team i will be joining in details.

In every question they wanted Production ready code on paper.

Verdict: Selected.

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