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Microsoft Interview Experience | 4.5 Years Experienced

- Difficulty Level :\nMedium
- Last Updated :\n09 Dec, 2021

Recently Got call from Microsoft. HR asked about my current work and experience and provided me update of the procedure for Microsoft Hiring. The process consist of 5 rounds(1 coding round, 3 technical discussions, 1 managerial discussion).
\xc2\xa0**Coding Round**:- This round consist of 2 questions on codility platform. Questions are of easy level, one is debug and for one you have to write code.

After this round, I got a call that there is one day process for Microsoft will happen, 4 rounds of interview on one day.

Round 1\xe2\x80\x93 This round consist of 2 questions

1. I will be given a timeslot availability of calendar for 24 hours, random time slots will come, I have to write a API, that will book the slot if it is available and return -1 if slot is not available. API should look like:-\xc2\xa0int checkAvailability(int start, int end)
   I have to check the overlapping conditions also, after a certain period of time, the data will be sent to another api, that will return available time slot in 24 hour time. One part of question was this:- https://www.geeksforgeeks.org/merging-intervals/. Define data type of time(this is the enhancement of previous question).
2. Find all the nodes in a binary tree which are at k distance from leaves.
   https://www.geeksforgeeks.org/print-nodes-distance-k-leaf-node/

   \xc2\xa0

Round 2 \xe2\x80\x93 This round started with my discussion of projects(15 minutes discussion). After that we proceed to design a Notepad type of editor. This editor consists of following API:-\xc2\xa0

- **a**\xe2\x80\x93 Insert(Insert the word)
- **b**-delete(string word)
- **c**-copy(int pointer)
- **d**-paste(int pointer)
- **e**-undo(10 operations allowed)
- **f**-redo(10 operations allowed)

Need to design the class diagram, compositon and funtionalities.

Round 3 -This round consists of technical discussion about the tech involved in my projects.\xc2\xa0

- Later on we moved to binary tree, he asked me to write down code for level order traversal, skew order traversal.\xc2\xa0
- After that he asked to reduce the space complexity. I had proceed to solve it and code it also. Please check link of question for reference.
  https://stackoverflow.com/questions/59582406/level-order-tree-traversal-without-using-additional-memory

Round 4 \xe2\x80\x93 This round was more of a behaviorial+ technical round. I was asked HR questions mostly and also 2 technical question to code.

1. (maximum continuous sub array)https://www.geeksforgeeks.org/largest-sum-contiguous-subarray/
2. print occurrence of duplicate element in reverse order. Input:- 1 2 3 3 2 1 4 4., output:- 4 1 2 3

Verdict:- Selected.

Be confident and be active, don\xe2\x80\x99t jump to solve the question, ask for more inputs from interviewer, ask valid questions. Be polite.

Practice a lot! All the best!

My Personal Notes\n*arrow_drop_up*

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