Microsoft Interview Experience | Set 90

Difficulty Level :\nHard

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I recently attended an interview at Microsoft. Following was my experience:

Round 1:

This was a written round. Everyone was given the following two questions:

- 1. Find all the nodes at a distance k from a given node
- 2. Given an array, arrange the elements such that the number formed by concatenating the elements is highest. E.g.: input = [9, 93, 24, 6], the output should be: [9,93,6,24]. This is because if you concatenate all the numbers, 993624 is the highest number that can be formed.

40 minutes was given for this round. However, if you request, they were giving extra time. After this round, lunch was served.

Round 2:

This was a face to face round. Almost everyone from first round was called in for the F2F interview. After a brief introduction, he asked me this question:

- 1. Given an array with huge data (say n, where n can be upto a million), the values in the array are in the range of 1-k where k<<<n, sort the array. I gave a solution with binary trees but then he asked for more solutions and finally was satisfied when I gave him a solution with O(k) extra space.
- 2. <u>He asked another question about thread safe singleton class</u> and asked me to write a code for it and explain it.
- 3. Then a few questions were asked about why Microsoft and similar stuff.

Round 3:

I don\xe2\x80\x99t remember the question properly but it was something about arrays and swapping and finding the minimum cost possible.

Round 4:

1. Longest Palindrome Substring set 1

However, the interviewer wasn\xe2\x80\x99t interested in the code. He asked me to do a TDD for this problem. So he asked me to write test cases for this problem. He wanted to see if I can really analyze and find the various possible cases for this problem. After some struggle, I was able to find various different type of test cases. I gave a brute force solution.

Round 5:

1. <u>Maximum difference between two elements such that larger element appears after the smaller</u> number

However, I gave a different solution than the one mentioned in this page.

Round 6:

- 1. Write the implementation of String class. Implement any four methods of your choice.
- 2. Write a code for the tail method of linux where you have to read some x lines of huge files from

the end without reading the entire file. I gave some solutions based on indexing. The interviewer was very friendly and helped a lot in arriving at the solution.

Since it was quite late by the time this interview was over, they arranged a cab for me to go back home.

Overall, the experience was very nice. The interviewers and the HR were very friendly.

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