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Microsoft Interview experience | Set 96 (On-Campus Internship for IDC)

- Difficulty Level :\nMedium
- Last Updated :\n10 Jan, 2019

Round 1 : (1hr 15 min)

Online test on CoCubes contains 3 Coding Questions

1. Find the number of times \xe2\x80\x9ccarry\xe2\x80\x9d is 1 while performing addition on two numbers

   \r\nInput: 56 99\r\nOutput: 3

2. Given an array of integers, shift all the numbers that are \xe2\x80\x98-ve\xe2\x80\x99 to the left and \xe2\x80\x98+ve\xe2\x80\x99 to the right \xe2\x80\x98in-place\xe2\x80\x99 (maintain the order of all the -ve numbers same as of the given array and the order of all the +ve numbers same as of the given array)

   \r\nInput: 10 7 -5 9 -12 15\r\nOutput: -5 -12 10 7 9 15

3. Find the sum of all nodes that have no child at minimum level. Return -1 if root is NULL

   \r\nInput: (Root of the tree is passed into the function) \r\n\r\n   5\r\n   / \\\r\n   2   6\r\n

   Around 65 students were selected to Round2

Round 2 : Group Fliers(around 45 min)

1. We have to take \xe2\x80\x98n\xe2\x80\x99 polynomials as input and we had to write functions for

   Sort(P), Add(P1,P2), Sub(P1,P2), Multiply(P1,P2)

   (Implemented Sort function according to the indices of the polynomial and all the functions optimized by space and time)

   Around 28 students got selected for technical interview

Round 3 : Technical Interview(around 40-45 min)

1. Tell about yourself
2. What are the courses you have done?
3. Suppose you have details of some stock market(Day & price were given), you will earn profit only if you buy stocks cheaper than the amount you sell them for.Write a program to find maximum profit that could be attained (using only one loopO(n) time and O(1) space)

   \r\nInput: \r\nDay : 1 2 3 4 5 6 7\r\nPrice: 60 10 5 12 8 40 9 \r\n\r\nOutput: 35 (40-5)

   GeeksforGeeks Link

4. Difference between Processes & Threads?
5. Suppose there is a sorted array and you are given the array by rotating k units.Find k by writing a program (O(logn) time)

   \r\n   Input: 5 6 7 1 2 3 4\r\n   Output: 3(3 rotations happened)

Round 4 : HR INTERVIEW(around 30 min) (On skype)

1. Tell about yourself
2. Previous intern experience and the details of the work assigned
3. What are the courses you have done and favourite course
4. Explain all sorting algorithms and decide which one is better
5. What projects have you done
6. Languages used.
7. Which was the most difficult task while doing your projects
8. How do you implement a library of books in json data(which fields were needed and stuff like that)
9. Why Microsoft & Do you think you are eligible for it
10. Goals and things you would like to achieve in future

Overall, the experience was nice. And the interviewers were friendly.

Thanks GFG.

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All Practice Problems for Microsoft !

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