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## Microsoft Interview Experience (On campus internship)

- Difficulty Level :[Medium](#)
- Last Updated :[31 Aug, 2018](#)

It was conducted on Cocubes. It consisted of 3 questions:

2 marks:Average of ascii characters of string.

Input:abc

Output:(65+66+67)/3=66

3 marks:[Reverse k nodes at a time in a linked list.](#)

5 marks:Cousin sum in a binary tree.

Other questions were:

- 1.Infix evaluation
- 2.Given an array of numbers, find the smallest number after n deletions
- 3.[Next palindrome.](#)

Of 200 students about 60 were selected for next pen and paper round.We had one ds question detect and remove loop from a linked list and 6 short questions based on C.

At the end of each round I was asked the question \xe2\x80\x9cDo you have any question for me? \xe2\x80\x9d.

### Round 1(F2F):

First I had to explain my approach, then write the entire code and test cases for each problem.

1.Reverse a sentence.

Input:\xe2\x80\x9dThis is a test\xe2\x80\x9d

Output:\xe2\x80\x9dtest a is This\xe2\x80\x9d

2.Reverse the sentence preserving whitespaces.

Input:\xe2\x80\x9dThis is \xc2\xa0 \xc2\xa0a\xc2\xa0 \xc2\xa0 test\xe2\x80\x9d

Output:\xe2\x80\x9dtest a\xc2\xa0 \xc2\xa0is\xc2\xa0 \xc2\xa0 This\xe2\x80\x9d

3.Identify whether given nodes of a binary tree are directly connected or not.

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Input Output

2 true  
5,4 false  
5,4,9 true

## Round 2(F2F):

1. There are two types of characters one of 1 byte and another of 2 bytes, I had to delete the last character.
2. Design a remote just like keypad of old phones, and display all corresponding channels on TV screen.

Input: 22227723

Output:

a  
b  
c  
a  
ap  
aq  
aqa  
aqd

## Round 3:

First I was asked "Tell me about yourself."

then "What I wanted to do in life?" and 2 coding questions, just logic no implementation.

1. Populate right pointer in a binary tree.
2. Given a file print all the anagrams together.

Finally, I was selected. It was one of the best moments of my life.

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