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## Microsoft Interview Experience (On-campus internship)

- Difficulty Level : [Medium](#)
- Last Updated : 20 Dec, 2018

### Online round:

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

1. 2 marks: [Average of ascii characters of string.](#)
2. 3 marks: [Reverse alternate k nodes](#)
3. 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 "Do you have any question for me?".

### Round 1:

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

- [Reverse a sentence.](#)

Input: This is a test

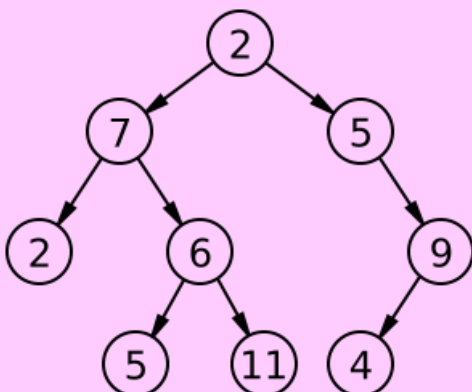
Output: test a is This

- [Reverse the sentence preserving whitespaces.](#)

Input: This is \xc2\xa0 \xc2\xa0a\xc2\xa0 \xc2\xa0 test

Output: test a \xc2\xa0 \xc2\xa0is \xc2\xa0 \xc2\xa0 This

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



INPUT OUTPUT

2 true

5, 4 false

5, 4, 9 true

## Round 2:

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

INPUT:

22223377

OUTPUT:

a

b

c

a

ad

ae

aep

aeq

And we have to display channels with output as prefix.

## 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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