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Amazon Interview Experience (AmazonWow)

- Difficulty Level :\nMedium
- Last Updated :\n04 Mar, 2022

Online Test: There were 28 MCQs mostly based on stacks, queues, predict the output, Sorting, and Binary Trees and 2 coding questions.

1) Given a string convert it into a valid address by inserting a \xe2\x80\x98.\xe2\x80\x99 after www then insert a \xe2\x80\x98.\xe2\x80\x99 before com and if there are more characters after com then put a \xe2\x80\x98/\xe2\x80\x99 after com and then the rest of the characters.

Eg:

```
 Input:  wwwgooglecomr\r\n Output: www.google.com/r
```

[Print the length of the longest decreasing subsequence.](#)

Round 1 (Interview 1): The interviewer introduced himself and asked me to introduce myself.

Coding Questions

1. \xc2\xa0[Print all the pairs whose sum is equal to 0.](#)
2. [He extended the question to find all the triplets with sum 0.](#)

Round 2 (Interview 2): Coding Question

1. Given n strings in \xe2\x80\x98a/b=0.5\xe2\x80\xb2,\xe2\x80\x99b/c=0.9\xe2\x80\x99 format. Find the answer of q queries in \xe2\x80\x98a/c\xe2\x80\x99 format.\xc2\xa0

Hint: (Make a directed graph with a, b and other alphabets as vertices)

Round 3 (Interview 3):\xc2\xa0

1. **Tree-Based:** [Given a binary tree and one node is set on fire so find the time required to burn all the nodes.](#)
2. **Stack Based:** Given a string with \xe2\x80\x98U\xe2\x80\x99 and \xe2\x80\x98D\xe2\x80\x99. Find the number of mountains and valleys\xc2\xa0

Eg:\xc2\xa0

```
Input: UUDDDDUDUU\r\nOutput: Mountain 1 is formed by UUDD and 1 Valley by DDUDUU
```

The interviewer expected me to code all the questions completely and helped in between if stuck to find the optimized approach.

Tips:\xc2\xa0

- Start coding after the interviewer is satisfied with your approach.
- First, clarify all the doubts and then give your solution.
- Dry run your code for multiple edge cases
- Try to write a clean code.

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