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Amazon Interview Experience | Set 382 (On-Campus for Full Time)

- Difficulty Level :[Hard](#)
- Last Updated :11 Jul, 2019

The Selection process started with an Online Coding round.

20 MCQ and 2 Coding Questions:

MCQs were from OOPs, OS, DBMS, Networking etc.

Coding Questions:

1. Rotate the given Matrix by a factor k. Input is given as two integers n,m (row and column of the matrix). Followed by n lines with m space separated integers as all the elements of the matrix. Last line has an integer k.

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```
\r\nInput:\r\n3 3\r\n1 2 3\r\n4 5 6\r\n7 8 9\r\n2\r\n\r\nOutput:\r\n7 4 1\r\n8 5 2\r\n9 6 3\r\n
```

2. Given a string. Find all the palindromic partitions of the string. (Number of way the string can be partitioned so that all the partitions are palindrome)

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```
\r\nInput: str = "NITIN"\r\n\r\nOutput:\r\n3\r\nN I T I N\r\nN I T I N\r\nN I T I N\r\n
```

Face2Face (Interview)

Round 1:

He asked coding questions straight away

1. Add two numbers without using +,- operator, recursion or loop.
Try to think in terms of half adder.
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2. Postfix to prefix without using recursion.
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3. Given an array of numbers. What is the largest no possible by concatenating all the numbers together.
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```
\r\nInput:\r\n5\r\n21 30 1 9 98\r\n\r\nOutput:\r\n99830211\r\n
```

4. Write the heapify code.

Round 2:

1. Level order traversal of a tree. Further he asked to optimise the code.
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2. Given a matrix. '\x98' means empty room, '\x981' means door, '\x98-1' means a wall. For every cell as an empty room find the distance to the nearest door (One cannot go through a wall).
[GeeksforGeeks Link](#)

```
\r\nInput:\r\n5 5\r\n0 0 1 -1 1\r\n0 -1 0 0 -1\r\n0 0 -1 0 -1\r\n1 -1 1 0 0\r\n0 0 0 0 0\r\n\r\nOutput
```

The door would be replaced with 0 as the distance to the nearest door would be 0.

I started by a backtracking solution. But the guy didn't know what it was. I gave many more solutions and concluded with an O(N) bfs solution.

Guys answer straight. Do not answer very complex algorithms, even though they are correct. Try to provide as brute-force solution as possible.

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