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Amazon Interview Experience | Set 145 (Off-Campus)

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I have been working with Amazon for last 2 years and 4 months. Here, is my interview experience when I was the interviewee:

Off Campus Drive (DCE) \xe2\x80\x93 2012

Written test:
1-> WAP to merge two linked lists like:

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\r\n       list1: 1->2->3->4\r\n       list2: 5->6->7\r\n       o/p list: 1->5->2->6->3->7->4
```

2-> Given two trees T1 and T2. WAP to check whether T1 is a subtree of T2 or T2 is a subtree of T1

3-> WAP to find maximum sum sub-matrix from a give matrix.

Round 1:

1->You are given a sorted but rotated array of integer like: 6 7 8 1 2 3 4 5 You have to search an element...
I answered with an O(logn) solution\xe2\x80\xa6
then he asked me to write the code\xe2\x80\xa6

2->What is the diameter of a tree?
I answered\xe2\x80\xa6
then he asked me to write the complete code\xe2\x80\xa6

3->He asked me a design problem \xe2\x80\x9cyou have to design a class \xe2\x80\x9cDeckofCards\xe2\x80\x9d\xe2\x80\xa6with 2 operations: 1:Shuffle 2:Pick\xe2\x80\x9d
Pick would pick a random card from the deck and Shuffle will shuffle the cards and give you back the deck of cards.
I answered with 2 options 1.LinkedList 2:Array\xe2\x80\xa6then there was a discussion around 15 mins over both the solutions\xe2\x80\xa6

Round 2:(I guess it was the bar-raiser round)

1-> My Introduction and My Projects (all 1 by 1 except the last)

2-> How to compute all possible solution of A^3+B^3=C^3, where A,B,C belongs to (0 to N)?
Write code\xe2\x80\xa6

3-> How to compute A^n where n<1 million\nWrite code...\n4-> A tough \xe2\x80\x9cmatrix with a mask\xe2\x80\x9d problem\xe2\x80\xa6I took around 20 mins to solve it.

5-> Why Amazon, what is scalability and questions from my answers\xe2\x80\xa6like how would you manage millions of requests\xe2\x80\xa6

Round 3:

1-> You r given a matrix of 0s and 1s. WAP that check if an element is 0 or not and places zeros to all the col and row of that element.

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\r\n       eg: i/p:    1 1 1 1       o/p    :  1 1 0 1\r\n                  1 1 0 1                0 0 0 0\r\n
```

2-> How to find a largest palindrome from a given string? Write code\xe2\x80\xa6.

3-> How many Data Structures you have implemented by yourself?

4-> Given some words(written in lexical order) of some unknown language\xe2\x80\xa6You have to find lexical ordering of all the alphabets\xe2\x80\xa6
Like in english lexical ordering is A B C\xe2\x80\xa6Z

Round 4
Forth round was just related to my projects and subjects\xe2\x80\xa6(Paging, Deadlock, Trashing, JAVA and C, Synchronization, etc) + 1 final algo question \xe2\x80\x9cHow to find all anagrams in a dictionary\xe2\x80\x9d Solution was in O(1)..

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All Practice Problems for Amazon !

My Personal Notes\n*narrow_drop_up*

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