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Amazon Interview | Set 37

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Interview Experience for placements at AMAZON.\xc2\xa0
It consists of 1 online round (20 MCQ + 2 coding question) and 4 F2F interviews.\xc2\xa0

Online Round 1:\xc2\xa0
20 MCQ 1 question each from OS, pigeon hole principle, probability, DBMS, networks, NP problem and other questions from C/C++ input output and logical question\xc2\xa0

22 from batch out of 300 students were selected for F2F interviews\xc2\xa0

Interview Round 1:\xc2\xa0
As they were short in time as it was 9 at night so they asked me single coding question.\xc2\xa0
Que 1: Given an array of n numbers with repetition of numbers. You need to find the max length of continuous sub array with at max 3 unique elements.\xc2\xa0
For eg\xc2\xa0
array: 1 2 3 1 4 3 4 1 2\xc2\xa0
ans: 6 (3 1 4 3 4 1)\xc2\xa0
Solution: Time complexity O(n)\xc2\xa0
Extra Space O(1)\xc2\xa0

Interview Round 2:\xc2\xa0
They asked me 3 questions but I am not remembering the 2nd one. Sorry for that\xc2\xa0
Que 1: You are given two binary trees. You need to tell that if one tree is rotated 90 degree and placed at bottom of that tree and each leaf nodes at max depth of two trees will meet each other or not.\xc2\xa0
for eg:\xc2\xa0
lets assume () as a node\xc2\xa0
Tree 1\xc2\xa0

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      (1)\n      /  \\\n    (2)  (3)\n     \\   /\n     (4,5)\nnode 4 and 5 are overlapping\nTree 2\n     (1)
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So it returns true as node 4, 5 of tree 1 is overlapping with node 4 of tree 2\xc2\xa0
Firstly I was asked to give algorithm then when i gave he asked me to code it\xc2\xa0
Solution: Time Complexity O(n+m) (where n and m are nodes in tree 1 and tree 2 respectively). Space Complexity O(n+m)\xc2\xa0

Que 3:\xc2\xa0
Suppose u given normal deck of cards 4 suites and 13 cards of each suite in which one card is missing\xc2\xa0
you are picking a card one at a time and sees that card and putting it aside\xc2\xa0
Find the suite and number of missing card.\xc2\xa0
Then he said change the number of suites to K (very very large you cant add till k)\xc2\xa0
and N numbers (again very large numbers)\xc2\xa0

Interview Round 3:\xc2\xa0
It was an easy round for me atleast but not for others\xc2\xa0
Que 1: Find the palindrome of a given number without using extra space\xc2\xa0

Que 2: 100 floors and 2 egg problem changed to 50 floors and 2 eggs\xc2\xa0

Que 3: You are given array of numbers which increasing first then decreasing. Find the greates number.\xc2\xa0
eg: 1 2 3 4 5 4 3\xc2\xa0
answer: 5\xc2\xa0
Solution : Time Complexity O(logn)\xc2\xa0
Space Complexity O(1)\xc2\xa0

Interview Round 4:\xc2\xa0
He asked me about my myself apart from coding and as I said \xe2\x80\x9cHacking\xe2\x80\x9d so we discussed about hacking a lot.\xc2\xa0
He also asked me about my projects\xc2\xa0
Then he gave me a puzzle:\xc2\xa0
Assuming I have a chessboard (8X8)\xc2\xa0
a knight is placed at (x,y) and he moves N hops\xc2\xa0
Find the probability that he will be inside after N hops.\xc2\xa0
On a condition that if a knight moves outside then he will remain outside he cant come inside.\xc2\xa0
For eg. (x,y)=(0,0)\xc2\xa0
n=2\xc2\xa0
probability=(12/64)\xc2\xa0

4th round was type of HR as he wants to know about myself and how I do different things.\xc2\xa0
If I stuck in a position what will I do.\xc2\xa0
If your boss says that you have to do X and you are not satisfied with this then what will you do and how will you approach.\xc2\xa0

After that I waited for 3 hours and I got selected with 4 of my friends \xf0\x9f\x98\x80\xc2\xa0

Hope this will help, I try the possible way to support you.\xc2\xa0

All the best for your placements \xf0\x9f\x99\x82\xc2\xa0

This article is compiled by anomaly404. Many Many congratulations to him. If you like GeeksforGeeks and would like to contribute, you can also write an article and mail your article to review-team@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks\xc2\xa0

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All Practice Problems for Amazon !\xc2\xa0

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