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Amazon Interview Experience | Set 410 (On-Campus Internship)

- Difficulty Level :\nHard
- Last Updated :\n24 Jun, 2021

Online Round:\xc2\xa0
It consists of 20 MCQs and two coding questions and MCQs got the negative marking . One for the correct answer and -0.25 for each wrong answer.\xc2\xa0
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1. 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) (Case\xe2\x80\x93Insensitive)\xc2\xa0
   Examples:\xc2\xa0
   \xc2\xa0

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Input : NITIN \nOutput : 3\n\nInput : AAa\nOutput : 4
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1. \xc2\xa0
2. You are given with a large paragraph and N words.You have to find a min length subparagraph of the paragraph which contain all those N words in any order.(Case Insensitive)

Only 32 students got selected for Personal Interviews Rounds.\xc2\xa0

Round 2(Technical Interview I):\xc2\xa0
First the Interviewer introduced himself and then asked me to introduce yourself.\xc2\xa0

He asked me 3 questions related to Data Structures and Algorithms.\xc2\xa0
\xc2\xa0

1. Given a n-ary tree print all the possible paths of the tree.\xc2\xa0

   Firstly I gave him the approach using queues.\xc2\xa0 Then he asked me to optimize the code for space complexity of O(1). Then I gave him the approach using recursion and a long in depth discussion followed on it. Then he asked me to write the code.

2. Given the no. of stairs as the input and a person can step forward either 1 or 2 or 3 steps at a time. Find the total no of possible ways person can climb the stairs.\xc2\xa0
   \xc2\xa0

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Input : 3\nOutput: 4
```

1. **Solution**: GeeksforGeeks Link\xc2\xa0
   \xc2\xa0
2. Given a 1-D array having equal no even and odd numbers. Arrange the numbers in such a way that all the even no get the even index and odd no get the odd index. Required space complexity and time complexity was O(1).\xc2\xa0
   Solution: GeeksforGeeks Link

Only six students were selected for the next round.\xc2\xa0

Round 3(Technical Interview II):\xc2\xa0
This round was similar to the previous rounds. Firstly the Interviewer introduced himself and then

asked me to introduce yourself.\xc2\xa0

He asked me 2 questions related to Data Structures.\xc2\xa0
\xc2\xa0

1. Print all the continuous sub-arrays where the sum of the sub-array becomes zero. Required space complexity was O(n).
2. Given a string containing parenthesis. Find the total no of reversal of parenthesis to make the given output as balanced one. This question followed a detailed discussion and interviewer gave me different no of inputs to test the code.\xc2\xa0
   Solution: GeeksforGeeks Link

After the coding questions. he asked me some basic questions related to Operating Systems like Deadlocks and Semaphores.\xc2\xa0

At last 3 students got the internship offer from Amazon.\xc2\xa0

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