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Amazon Interview experience | Set 328 (For SDE-1)

- Difficulty Level :\nMedium
- Last Updated :\n08 Jun, 2021

Started with online test at Hackerearth. It had 2 questions.\xc2\xa0

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1. Find subarray with max sum. Array have both -ve and +ve integers.
2. Consider a matrix with rows and columns, where each cell contains either a 0 or a 1 and any cell containing a 1 is called a filled cell. Two cells are said to be connected if they are adjacent to each other horizontally, vertically, or diagonally;\xc2\xa0
If one or more filled cells are also connected, they form a region.\xc2\xa0
Output the length of the largest region.\xc2\xa0

   Ex: in the following example, there are 2 regions one with length 1 and the other as 6.\xc2\xa0
   0 0 1 1 0\xc2\xa0
   1 0 1 1 0\xc2\xa0
   0 1 0 0 0\xc2\xa0
   0 0 0 0 1\xc2\xa0
   Solution: Unit Area of largest region of 1\xe2\x80\x99s

1st Round (telephonic)\xc2\xa0
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1. Given a string and integer k, in-place rearrange the string such that last n-k characters comes before the first k characters.\xc2\xa0
Ex: abcdef and k=3, so result is: defabc
2. Given a binary tree, sum all the root to leaf nodes and return the sum.\xc2\xa0

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Ex:  \n        1\n      /  \\\n     2     3\n    /  \\      \\\n   4    6     7\n\nhere ans: 124 + 126 + 13
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2nd Round\xc2\xa0
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1. Given a large file having strings(for understanding, given an array of strings). Find the string which repeats the most. Ignore the case.
2. Given the link-list and integer value \xe2\x80\x98k\xe2\x80\x99, reverse every k nodes of the list.\xc2\xa0
Ex. k = 3, list: 1-2-3-4-5-6-7-8\xc2\xa0
ans: 3-2-1-6-5-4-8-7

3rd Round\xc2\xa0
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1. Questions on my projects.
2. Given a binary tree with each node having parent pointers. Find the LCA of two nodes.

4th Round\xc2\xa0
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1. Given a 2-D grid, number of steps to take, say k and initial position of a Robot. print the paths possible from initial position after k steps. Robot can move in top, right, left, bottom. In one path, robot can\xe2\x80\x99t move to the location it has previously visited.
2. Check if a binary tree is balanced. Balance criteria was difference of height between left and right subtree should be <= 1.
3. Given a binary tree, a node of that tree, and integer k. Print all the nodes which are at distance k from that node. NOTE: there is no parent pointer in the node.

5th Round\xc2\xa0
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1. Behavioral Questions. Read front pages(before technical stuff) of Cracking the coding interview book. Prepare them well.
2. Given a string, count all the palindromes in that string. Only consider substring palindromes

Thanks to geeksforgeeks for helping me prepare for interviews.\xc2\xa0

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All Practice Problems for Amazon !\xc2\xa0

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