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Amazon Interview | Set 14

- Difficulty Level : \n[Expert](#)
- Last Updated : \n13 Jun, 2019

Team\xc2\xa0: Transportation

Location\xc2\xa0: Hyderabad

Round 1 (Online Test)

Q1. [Find the kth largest value in a BST](#)

Q2. Swap the alternate nodes in a singly linked list(not the data);

Q3. [Minimum no of coins required to get the given sum. Coins are given in a sorted array.](#)

Q4. A file contains data as follows(Student name, marks in 3 subjects)

Shrikanth 20 50 60

Kiran 30 80 90

Find the student who has\xc2\xa0maximum\xc2\xa0average score

Q5. [Find out given two trees are isomorphic or not](#)

Round 2 (Telephonic Round)

Q1.\xc2\xa0\xc2\xa0Print the level order of binary tree such that each level should print in a different line

Q2. [Push\(\) and Pop\(\) methods of stack are given. Write a function to get the minimum of stack in O\(1\) time](#)

Project related questions

Round 3 (F2F with Dev Manager)

Q1. [Connect nodes at same level in a binary tree](#)(may not be a complete binary tree) without using recursion

Q2. Sort the linked list which contains only 1,2,3 numbers in a single pass

Round 4 (F2F with developers)

Q1.\xc2\xa0Design a [snake and ladder game](#)

Q2. [Given a linked list contains even and odd numbers.\xc2\xa0separate\xc2\xa0the list into two lists contains odd/even numbers.](#)

Q3. [Given a 2D matrix which contains 0\xe2\x80\x99s and 1\xe2\x80\x99s. Given two points of matrix whose value is 1. Find the path\(with only 1\xe2\x80\x99s\) between the given points](#)

Round 5 (F2F with Senior Manager)

Project related questions

Challenging tasks done so far

Q1. Given a large file which contains m rows and n columns. Given a column no, sort the column in such a way that corresponding rows also sorted

Round 6 (F2F with Developers)

Q1. Print all pairs(sets) of prime numbers (p,q) such that $p*q \leq n$, where n is given number

Q2. Given a binary tree, if parent is 0, then left child is 0 and right child is 1. if parent is 1, then left child is 1 and right child is 0. Root of the tree is 0. Find the kth node value which is present at Nth level

Q3. Longest monotonically increasing sequence in $O(N \log N)$

I couldn't make it. Hope it helps someone else.

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