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Amazon Interview Experience | Set 252 (For SDET)

- Difficulty Level : \n[Medium](#)
- Last Updated : \n03 Jul, 2019

I got a call from amazon for the opening of SDET. It all started with telephonic interview asking brief introduction and 2 questions.

1. [rearrange a linked list in such way that all odd position nodes are together and all even positions node are together, 1->2->3->4->5->6 , convert it to 1->3->5->2->4->6](#)

Face-to-Face 1st Round

1. Random play a song from a list of given songs in such a way that no songs is repeated until all the songs are played
2. [Distance between two nodes of a given binary tree](#)

Face-to-Face 2nd Round

1. [Find out whether a tree is subtree of given tree or not](#)
2. [For a given array find max of k sub-array, i.e if array is 1, 2, 3, 4, 5,6,7,8 ,9,10, then function should return an array of size n-k+1 with each element be the max of k elements](#)
output : 3 (max of 1, 2, 3), 4(max of 2,3,4), 5(max of 3, 4, 5) etc, array is not sorted

Face-to-Face 3rd Round

1. Automating an api to getAllFriendListFromFacebook for a given email id.

Face-to-Face 4th Round 1. vertical sum of a binary tree, he was looking for in place solution. just 1 traversal and without using hashmap as hashmap allocates more size than the elements to store. interviewer gave hint to use doubly linked list to store the sum.

Face-to-Face 5th Round

1. Given a binary tree return a matrix where mat(i,j) is 1 when i is an ancestor of j. only one traversal required and no extra space required, idea is to populate ancestor list as we process nodes and update the matrix

Thanks & Regards

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