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Amazon SDE II Interview Experience

- Last Updated : 02 Dec, 2019

Round 1:

Ques 1: Rearrange a LinkedList

Before : a->x->b->y->c->z

After : a->b->c->z->y->x

1st intuition Maintain two list for a->b->c and x->y->z respectively.

Reverse the second list and join it at the end of the first list.

Interviewer : Reversing of LL is not allowed.

2nd intuition Use of Stack, while traversing the second list which is to be reversed, maintain the elements in a stack and then join them.

Interview : Use of stack is not allowed.

3rd intuition Manipulate the pointers in one-go!!!

Ques 2: Find Diameter of a Tree

Round 2:

Ques 1: Given an array of numbers and a window size, k. Find the max element in each window while traversing the array.

Ques 2: Reverse a LinkedList

Leadership Principle Question

Round 3:

Design a Library Management System.

Extended:

Add the concept of Reservations.

Provide the minimum time to wait for a Student before he can be issued a Book.

e.g 3 Books already issued and new student is 37th in queue for the issue.

Leadership Principle Question

Round 4:

Leadership Principle Question

Ques 1: Design a Pluggable Cache, i.e. at any time it may be changed from LRU to MFU or LFU, etc.

LRU Least Recently Used

MFU Most Frequently Used

Ques 2: Multiple Matrices

Input : [[a, b, c]

[d, e, f]

[x, y, z]]

of Rows and Columns can vary.

Output: adx, ady, adz, bdx, cdx, cdy, cfz

Result : Rejected

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