Amazon Interview | Set 1

Difficulty Level :\nHard
Last Updated :\n13 Jun, 2019

Please find the details of my amazon interviews below.

Date of Interviews:\xc2\xa022nd August 2012

No of Rounds: 1 Written + 4 PI

Type of Interviews:\xc2\xa0Campus Interview for freshers

Written Test (Time): 90 Minutes

20 Objective Questions: Aptitude and basic C objective problems.

2 Subjective Questions:

Interview Round 1(60-70 Minutes):

Technical Interview

Question 1:\xc2\xa0Check if a character link list is palindrome or not.

Question 2:\xc2\xa0A sorted array has been rotated r times to the left. Find r in least possible time.

Question 3:\xc2\xa0Clone a singly link list whose nodes contain, apart from next pointers, an extra pointer to any random node. The random pointer of a node N could be after N, before N or the node N itself.

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Interview Round 2(50-60 Minutes):

Technical Interview

Question 1:\xc2\xa0There is a big file of words which is dynamically changing. We are continuously adding some words into it. How would you keep track of top 10 trending words at each moment?

Question 2:\xc2\xa0Write code for minHeapify() operation.

Question 3:\xc2\xa0Design a data structure for the following operations:

1.\xc2\xa0\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0

IV.\xc2\xa0\xa0\xc2\xa

All these operations should take O(1) time.

Question 4:\xc2\xa0Write a function that returns the length of the longest leaf-to-leaf path in a binary tree.

Interview Round 3(60-70 Minutes):

Technical Interview

Question 1:\xc2\xa0There is a binary tree of size N. All nodes are numbered between 1-N(inclusive). There is a N*N integer matrix Arr[N][N], all elements are initialized to zero. So for all the nodes A and B, put Arr[A][B] = 1 if A is an ancestor of B (NOT\xc2\xa0just the immediate ancestor).

Question 2:\xc2\xa0Find an element in a sorted rotated integer array.

Question 3:\xc2\xa0There is a N*N integer matrix Arr[N][N]. From the row r and column c, we can go to any of the following three indices:

So if we start at any column index on row 0, what is the largest sum of any of the paths till row N-1.

Interview Round 4(40-50 Minutes):

Bar Raiser Round

Interviewer asked HR Questions Initially, then a sort of puzzle.

Two robots land with their parachutes on an infinite one-dimensional number line. They both release their parachutes as soon as they land and start moving. They are allowed only to make use of the following functions.

IV.\xc2\xa0\xa0\xc2\xa

Write a function in order to make the robots meet each other. Robots will be executing the same copy of this function.

HIRED!! \xf0\x9f\x99\x82

Tips / Advice:

This article is compiled by **Akash Nawani**. Many Many congratulations to Akash for his selection in Amazaon. If you like GeeksforGeeks and would like to contribute, you can also write an article and mail your article to contribute@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks.

All Practice Problems for Amazon!

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