GoldMan sachs

1. Write a program to check whether given tree is binary search tree

2.In a linked list, find nth element from the end

3.System design question to design alert processing system

4.Implement cache where each element in cache have its own expiry time

5.Coderpad interview: Given an array of non negative integers, find the smallest sub array that at least equals a value x that is also passed to the function.

1 Answer

Coderpad: given an array scores[][] = {jerry,65},{bob,91}, {jerry,23}, {Eric,83}}

Find the student with highest average score

print all the characters that needs to be present to make a sentence an pangram

given a string, find all Unique substrings with k length, then

sort. ex: caaab，k = 2，return aa, ab, ca

Given an nxn matrix of numbers in ascending order in both dimensions how would you go about finding if the number y is in the matrix.

Interview Questions

Revert a linked list with a cycle in it. (Thus removing the cycle)

How DB indexing works.

Design a system to manage a parking lot.

How do you calculate weighted averages?

How do you find 2 missing elements in an array of consecutive integers that are not sorted who's size is N-2.

What is the concurrent mark-sweep alogirthm for garbage collection?

longest palindrome in a string  
alternative odd even nos by 2 threads  
lift question - less starvation and max utilisation  
longest sub array having unique characters  
stock prices of different vendors are coming in then get the best prices at any point of time. What would happen if a new price of vendor comes up, it should still give the best price at that time. - USE 2 stacks - 1 stack for the input at every input in stack 1 place the min element at that time in another stack. If the same vendor comes again with some new price just place it on stack 1 and get the min value at that time and place it in stack 2.