Documentation of all interview questions of slot 1

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Company Name

nutanix

Question along with round number and solution if possible

In 1st round,we were given a c++ code of priority queue.we have to find errors in that and its time complexity.

Question along with round number and solution if possible

in 2nd round,given an array of size n,containing nos from 1 to n-1.some of nos were missing and some no were missing.find the no missing and count of no repeating in O(n) time and no extra space.n^2 is larger than size of INT.

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Company Name

microsoft

Question along with round number and solution if possible

given a json object as string,check whether it is syntactically and symantically correct or not.have to use stack like parenthesis matching for syntax checking.and hash map to check symantically.

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Company Name

Microsoft

Question along with round number and solution if possible

Question:- Given a set of strings, all of same length and a start string and an end string, formulate a way to convert start string to end string by changing exactly 1 character at a time.
Example:- Set = {POT,PAT,BAT}
Correct Solution:- POT-> PAT -> BAT
Incorrect Solution:- POT->BOT->BAT (BOT not in list)

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Company Name

Tower Research Capital

Question along with round number and solution if possible

Telephonic Interview Round : Discussion about the experience & projects

Question along with round number and solution if possible

Telephonic Interview Round : Shortest distance between a weighted directed acyclic graph. == SOLUTION IN CLRS(using topological sort)

Question along with round number and solution if possible

Telephonic Interview Round : Number of binary strings of length N such that two zeroes don't occur simultaneously. Solution == DP(2 cases : 0 at i'th position and 1 at i'th position)

Question along with round number and solution if possible

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Company Name

Nutanix

Question along with round number and solution if possible

Round 1: Debug round

Question along with round number and solution if possible

Round 2: Given an array, find X,Y,Z s.t. A[x+1] + A[x+2] +... +A[y-2]+A[y-1] + A[y+1] + A[y+2] +... + A[z-2] + A[z-1] is maximum. SOlution := maintain maximum sum at left and right of every element.

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Company Name

D.E. Shaw

Question along with round number and solution if possible

Tech Round : design a class in C++ to store the RGB values of colours. Space optimize it.

Question along with round number and solution if possible

Tech Round : Given an array containing the stock prices at each day, find the buying and selling day to maximise profit.

Question along with round number and solution if possible

HR Round : Standard questions. About yourself, Strengths, weakness, passionate about.. blah blah

Question along with round number and solution if possible

Tech Round : Given a function, had to optimise it. I used memoization bcz of overlapping recursion calls in it.

Question along with round number and solution if possible

Tech Round : on a table, there are 30 coins with 10 tails and 20 heads. You can't see them.. divide them into two halves such that count of tails remain same in both.

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Company Name

Microsoft

Question along with round number and solution if possible

Round 1
Given Post order Traversal of a Tree, give an algorithm to reconstruct the binary search tree

Question along with round number and solution if possible

Round 1
Given a linked list and integers m and n, write the C code to remove first n elements out of every consecutive m elements and account for memory

Question along with round number and solution if possible

Round 2
Implement LRU cache (check geeksforgeeks)

Question along with round number and solution if possible

Round 2
Do post order traversal of a tree using iteration instead of recursion

Question along with round number and solution if possible

Round 2
Given n nuts and n bolts, and for each but there is a particular bolt, and you cannot compare nuts and nuts , you cannot compare bolts with bolts, only nuts with bolts. Find an algorithm to match all nuts and bolts

Question along with round number and solution if possible

Round 3
Given a RAM of 10^6 capacity and and 10^9 integers in main memory, give an algorithm to sort them. Read and write operation costs are given. Give time complexity of algorithm

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