

Polymorphism, exception handling, OLAP,
data structures,
find A & B 's nearest common ancestor for n-ary tree

Given a list of song names and a song name, append the song name to the end of the list if it hasn't appeared before; Otherwise remove previous appearance first then append to the end. --> This is similar to designing the LRU cache.
Leetcode #146

Given a string representing an absolute path and a target string, return a map whose key being all files under the input path (including those under sub-directories), and value being a boolean flag indicating whether this file contains the target string,

Given an array with n objects colored red, white or blue, sort them in-place so that objects of the same color are adjacent, with the colors in the order red, white and blue.

Implementing a factorial function

Technical interview was done on phone+a tool to share screen for code. The question was to find kth smallest element in a BST. Also was asked to improve the complexity. Interview was 30 min long.

Interview was quite easy. Basic questions about array stack linked list etc were asked. Some sql query were also asked. A few puzzles and coding was also there. OOPS concepts and DBMS basic concepts are a must to clear the interview

Online test - MCQ based (English Language, Aptitude, Quant, DSA, CS Core Subjects - OS, OOP, DBS) Technical Interview - 2 HR Interview - 1 Technical Interview was not quite hectic. But people were also eliminated in HR rounds. I was eliminated in HR round as well.

There were 4 rounds, 1 apti online round, 2 technical and 1 HR onsite round and the process was smooth. In 1st technical they asked about Java build factory, string builder, design patterns, ds. In 2nd technical round the questions were resume based and situational. Finally there was HR, and general questions like why do you want to switch and an analysis of your profile to find suitable position. The only problem is they take whole lot amount of time to release the offer letter and also the HR doesn't respond on time.

Write a program to print 120 out of Five Zeros.

What is Serialization and why do we use it

What is a Process and what is a thread? What is the difference between the two ?

Why do we use Synchronization ?

If we have a Cat class and we create two objects of Cat class . What will happen if I try to add it in a Hash Set collection. Will it add or throw exception. How to avoid duplicate object addition in such case.

Write a Java code to reverse a Queue without using any library function

Write a code to convert Decimal to Binary numbers.

What is Powermockito Framework. Why we use it.?

Can we move Static class?

Write a Code to find LCM of two numbers.

If we have 10 bags with 10 coins in 9 bags and 11 coins in 1 bag. Each coin weighs 1 gram. By using only one Weighing scale and measuring only once how will you find out which Bag had the 11 coins.

difference between tcp and udp?

Explain virtual function and difference between overloading and overriding?

what is paging?

storage class ,difference between heap and stack

memory management

Screening Test : Four sections were there in Screening test : Aptitude, Verbal, Data Structures & Algorithms and Database. 50-60 students were shortlisted for the next round. Technical Interview : Purely technical based questions. There were 7-10 interviewers in a single room taking 7-10 different interviews. Was rejected in the first technical round but was later announced by the HR that I was rejected.

1) Hash Table, Hash Set, Hash Map 2) Merge Sort 3) Parallel Programming 4) How would you parallelize Merge Sort 5) Maximum of a sequence of number where the user is continuously giving the input 6) Mode of the maximum number in the sequence.

A good logical written test followed by some good interview process. Written test included many aptitude questions and j2EE,jsp,servlet questions They ask some basic java programs and some basic collections related questions.

There were basically two interviews. Technical and HR. Technical interview was the one that mattered a lot, and they were basically stressing on the analytical and thinking skills, whether the candidate can think and come to an optimal solution or not. My decent ranks in online competitive programming were an added advantage and so all the questions that were asked were puzzles. Some were asked to check c,c++ concepts (depending on your resume).

Find Minimum in rotated sorted array. Followup - With duplicates

LRU Cache

Tiny url generation

Design Leaderboard

On-Campus Recruitment 1) Online test : Data structure, DBMS, aptitude, analytical and OS concepts 2) Four round of technical interview followed by HR Round Good knowledge of Data structure/DBMS concepts required. In first two technical rounds they will ask questions from database and data structure. They will also ask aptitude questions and puzzles like water jug problems, sand clock problems etc.

It started with online aptitude test. Test contained 1) verbal, 2) analytically, 3) maths, 4) computer science related questions. They shortlisted top 30% of the students who gave the test. The interview had 3 rounds. 1) (15 mins) They asked puzzles and algorithm of Sudoku validation. 2) (30 mins) Algorithm of some programming problems and MySQL queries. 3) (30 mins) HR round. My background information and again 2-3 puzzles. They declared the result same day. Overall it was plain and simple process, one with quick problem solving ability can crack this interview.

Oracle had come to our campus for recruitment. 60 students were selected after a MCQs round. The interview process was bit chaotic and there was very less management from their side. I had reached till 3rd round. First two rounds were of moderate difficulty. They asked questions about linked list, stack, binary tree, array and string and 2-3 puzzles in 1st round and in 2nd round about my ML project, DBMS project, ER diagram and one algo question. In 3rd round he asked only one Graph question which was tough and I could answer only brute force approach. P. S. Do the puzzles from GeeksForGeeks in oracle section.

Find if two linked lists have common node or not.

Find left-closest greater element in array for each element.

Transform given binary tree into its mirror image (in-place).

Find longest palindromic substring of given string.

Find shortest path between two points in graph, without using any visited array or extra memory.

1 st round -> Give an example of Inheritance. And they asked me question related it -> Given an array of 0 & 1. Find out total maximum consecutive plus pattern which are made from consecutive 1. -> Basic information related course and Project.

2 nd Round -> Difference Between Abstract and Interface -> What is inner class and types of inner class -> Question related String.intern() method

3 rd Round You want to take X rupees from ATM. ATM has some 100 Rs, 500 Rs and 1000 Rs notes. X should be multiple of 100. Check all condition X should be available in ATM and Bank account. Give X rupees in Greedy way first priority 1000 rs then 500 rs then 100 rs. Try to give at least one 100 rs if it's possible. Write down a code which consider all above test cases.

4 th Round -> Create data base of Student & Subject entity class. Ask question related redundancy and anomalies. -
> Create data base of bus stations. And write down query. -> Find of student who acquired 5 th rank in class based on aggregate marks.

- 1) Given mathematical equation in String format. i.e "34+7" . It consists of only 2 operands and one operator(+, -, /, *) between them. Return answer in integer. Throw error if equation is invalid.
->Followed by time and space optimized solution
- 2) Given a Dice. Take number of players as input. Simulate their game (1 turn per player only) automatically. Total of the dice is defined as the sum of values of all visible sides. Dice value is defined as the value on top side of the dice. Winning player is defined as a player whose total is more than the total of each player. Display the winner id, total value and dice value.
- 3) Given array : a1,a2,a3,...,an,b1,b2,b3,...,bn. Organize the array in following format : a1,b1,a2,b2,a3,b3,...an,bn. Don't use extra memory. i.e in-place approach
- 4) Given an array having random ordered, multiple values consisting of 0, 1 and 2. i.e 0,2,2,1,1,0...,1. Organize this array in following format : all 0's , all 1's, all 2's. i.e 0,0,1,1,1,1,1,2,2. Don't use extra memory. i.e in-place approach.
- 5) Given data for a hotel in following format : dayNumber, noOfCheckedInPersons, noOfCheckedOutPersons. Consider the input as a list of objects having above 3 values. Return the dayId on which maximum number of people were there inside the hotel.
- 6) Check if given number is prime or not. Don't consider any data type as the input can be of 100 characters also. Get the most optimal approach (in terms of time and space complexity) to find the solution. Time limit : 15 mins.
- 7) Given date in String format ("DD/MMM/YYYY") and number of days in integer range. Add the number of days in the given date and return the next date in String format("DD/MMM/YYYY"). Check for leap year as well.

Core Java,j2ee

Custom arraylist using array to add del and get

Find a pair of numbers from sorted array which's sum is closest with given number in minimum time complexity/iteration

Jsp/servlet basics

Program of sudoku

Pyramid

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*  
* *  
* * *
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0061934044

Check fancy mobile number if has patterns like

3 consecutive occurrence of same digit

3 continuous digits like 234 or 765

4+ occurrence of same digit anywhere

You have 2 cans of 10 litre milk each. Customer comes with cans of 5 and 4 liter capacity.

You have to give 2 litre milk to each customer can. You don't have any measure on can and no approximate allowed

U have 4 pair of socks with Red, Green, Blue and Yellow color.

You have to arrange these 8 socks in a way that

- 1 sock between 2 red
- 2 socks between 2 blue
- 3 socks between 2 green
- 4 socks between 2 yellow

tell me about your self
collection basic
reverse string prog
remove duplicate from string
puzzle of bucket
find out last 3rd element from singly linked list
- deadlock prog and how to resolve it

tell me about your current project
- design park and allot slot system
- design respondent, manager and director system where call should be redirect to next level if person is not available to respond the call
- find max salary from emp table
- jar detail.. what reside inside jar.. where is external Lib inside jar..
- what if 1 lack hit came on same time in irtc website.. how will you handle those req
- design producer consumer prog in which prod produce string and consumer print it on screen.. consumer should wait until producer produce one string and vice versa

Palindrome string

develop one multi thread prog in which one thread create a file and another thread ll check if file is exist or not

one more question.. design stack in a way in which we can do push pop and getMinimum value from a stack in $O(1)$ time complexity

- what is webservice.. diff between soap and rest..how to developer our own web service..

what happen when we actually hit any url

how hashmap works

Find second highest element from the array.

Find two number from array which multiplication is highest

Find difference between two date in days and print which date come first

Identify number between 1 to 500 which satisfy pythagoras theorem

Like $3^2 + 4^2 = 5^2$

All possible combination

Program ma data structures related thodu hoi 6 graph related algo , internal impl of any data structure , baki amuk logical puzzle type que , query ma nth highest salary , delete dup without temp table.

I was only in the first round. The interviewer covered questions related to my project, some questions on data structure

re and algorithms. Also asked 2 quiz question. The interviewers were very responsive and liked to know that what we think during solving questions.

quiz question : Find the fastest 3 horses

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SELECT Id, Salary FROM Employee e WHERE 2=(SELECT COUNT(DISTINCT Salary) FROM Employee p WHERE e.Salary<=p.Salary)
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