

Interview Experiences :THESE ARE GATHERED BY ALL CANDIDATES

I ,Vaibhav Singh Chauhan, sharing our interview experiences with you guys . I hope it will be beneficial for you all.

Mail ID: [hiddenwarrior88@gmail.com](mailto:hiddenwarrior88@gmail.com)

## **C Language:**

Storage Classes with code Examples, Dynamic Memory Allocation with Codes, Function Recursive Approach, Pointers Basics, Structures Vs Union , Memory Representation

Programs:

Whether the given number is palindrome or not?

Whether the given String is Palindrome or Not? And Anagrams or Not?

Divide the given array in such a way that both sub arrays has equal sum.

Flatten the given array [1,2,3,[4,5,[6,7,8,[9,...]]]] . Your Output should be [1,2,3.....]

Prime Number programs using Minimum Complexity. And using recursion

Recursion programs : Fibonaaci , sum of array, reverse number, factorial

Find the missing element in array if all no are consecutive without using any loop. Array has n-1 elements

Find the repetative element in array if all no are consecutive without using any loop. Array has n+1 element

Input: CONTENTSPHERE     output should be max repeating characters E, if VAIBHAV then Output will be AV

Input : yfgglm , Output will be button ...program should for upper and lowercase both (Hint:a-z,b-y, c-x..)

Input: aaabbbbcccccaaabbbaaa .....output : a3b4c5a3b3a3

Input : "apple"    Output : 'a' at position 0 add 0 , 'p ' at position 1 at 1 ..output : "aqroi"

Program for GCD and LCM of n numbers

Rotate the 2D array at 90degree

Print Element of Array without using loop

Write a program of structure of Student

All strings Programs without using inbuilt function

Remove Vowels from given string

Remove Duplicates in String

Print Frequency of characters

Print Distinct Element of an Array

## **C++ Language**

Object Oriented Programming Concepts With Examples and Code Implementation

Minor Pillar of OOPs

Abstract class in C++, COPY CONSTRUCTOR

Virtual Table and Virtual Pointer

Exception Handling in C++

C++ Socket Programming

C++ database Connectivity

Can we have Virtual Destructor?

Can we have virtual constructor

Operator Overloading

Overloading vs Overriding with code

Object Slicing with code

Early and Late Binding

Shallow Copy and Deep Copy with code

Static and Dynamic Polymorphism

delete keyword vs delete[]

delete vs new

return type of constructor and destructor

diamond problem and its solution

How can we stop inheriting base class by derived class?

Const int to const pointer, const pointer to int, int to const pointer

This pointer

Static keyword

Reference vs pointer

How you Implement Polymorphism in Your Project? Explain (C++ Mini project with File Handling)

Singleton Class

By default class has? (assignment operators, copy constructor, constructor, destructor)

Good Examples of OOPs Concepts

Pure Virtual Function

MultiThreading in C++(ask to Prateek Chokse [got highest package ])

### **DATA STRUCTURES [Coding neccessary]**

LinkedList all opn, Doubly Linked List, CircularLL, Doubly CircularLL

Stack, Queue, Circular Queue, Priority Queue Using Array and Linked List

Sorting algos and complexity

Using OnePointer Delete the Node of LL

Binary Search On Unsorted array

Binary search tree

Binary tree insertion ,traversal (preorder,inorder,postorder)and deletion

Delete whole tree

BFS and DFS[Imp]

Find Element in LL using given pointer

Find MiddleElement of LL

Find 3<sup>rd</sup> Element Of LL

Reverse the LinkList

If we want to store planets which Data Structure Is best[Ans: LL]

Hashing , Collision, Chaining, Open Addressing [Basic Idea]

Graphs and Trees theory

## **Databases**

Normalization of your project table structure

Joins On your projects and Joins theory

Joins over 3,4 and 5 table

Nth largest salary

Drop,delete and truncate

Clustered Index and Non Clustered

Why Correlated Querys

Views,Why use Views

Triggers and its Type

Stored Procedure and Function

Date Time Function related Query

In and Out in DB

Which DB you and Why ?[safe ans: mysql bcoz its a part of curriculum ][No discussion will happen]

## **CORE JAVA[if you good in this, with coding examples(must) you get selected asap ]**

JVM internal working

Java code compilation process

Final finally finalize()

Abstract vs interface, Why I/f over abstract class

Can we create object of interface,how , what is lambda expression

C++ vs Java

Collections[hot topic]

Diff list vs set,linkedlist vs ArrayList,SortedSet vs TreeSet,HashMapvsTreeMAP

Comparable vs Comparer

Expection Handling Unchecked and Checked Exception , EH with Overriding

Class Cast Exception can be recover by?? [instanceof ]

Throwable

Multithreading runnable vs thread why runnable

Notify, notifyAll, wait, sleep, yield

Producer consumer problem[code]

Producer Consumer Problem with Non blocking Queue using MultiThreading(UseLess Ques)

String Handling

String Buffer vs String vs String Builder

Thread vs Process

Thread safe ??

Hierarchy of Collection, Exception Handling, MultiThreading

Java Array question

JDBC code

Socket Programming [Rarely Ask]

Access Specifiers

System.out.println means

Eclipse Shortcuts[capgemini-worst company]

## **ADVANCE JAVA**

Spring Why Spring

Hibernate Why Hibernate

Project implementation

AOP, IOC, DI programs

Hibernate.cfg.xml

Name.hbm.xml

Web.xml

Servlet life cycle

Hibernate phases [ transient , persistent, detached and removed]and L1and L2 cache

@repository @autowired @service @getmapping @postmapping @transaction

@not null @not empty @generatedvalue..where to used annotations and how to use annotation

Flow of Project.....With Diagrams

Model Attributes, Why EL syntax

POST GET REDIRECT Problem solution[flash.addAttribute RedirectAttributes]

Page Scope of jsp and spring

State Mgmt techniques

## **DOTNET**

Out and ref

Params

Jagged array

Interface

Sealed

Abstract

Override

Virtual

Delegation

CLR Internal Flow,GC,level of GC,threads??

FCL

Gac.util

ILDasm

Assembly and its type

Manifest??

Application Pool

IIS and its Version you used

Solution Explorer Architecture,LINQ [linqsample.com search ON GOOGLE]

Route Config,Web Config,Scriptconfig,Bundle Config,Machine Config

Namespaces,EntityFrameWork Basics

Full Flow of Projects

### **JAVASCRIPT/NODE JS/PHP/AWP**

Basics,array shuffle program,event loop , npm modules,middleware layer, CORS

http express event fs

json

xml,xmllns,xmlpath

PCDATA CDATA,DTD

\$\$ vs \$

Associative array

Ajax, why ajax

Mysqli commands

HTML tags[frameset vs div vs table]

### **PUZZLES(search keywords in google)**

Water jug 3,5,8

Scooter Tyre2.5

Room with switches

Candle lighter count hrs

Divide figures in equal parts

Matching dots in one go

31 kgs rice 1 kg weight

Tournament knockout round

Handshake

Toffee and Wrappers

9 balls one defective

Box and Lock Keys CyprtoRSA algo based

Murderer Puzzle ABCDE

Search Floor no So egg Thrown from that floor, egg not broke[binary search]

