

Technical Interview Questions



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Object Oriented Programming

- ☐ Pillars of OOP
- ☐ Types of Inheritance
- ☐ What is Diamond Problem
- ☐ Compile Time & Runtime Polymorphism
- ☐ Constructor & Destructor
- ☐ Static Keyword in Class, Method & Field
- ☐ Final Keyword in Class, Method & Field
- ☐ Composition , Aggregation & Association
- ☐ Multithreading
- ☐ Singleton Pattern & Factory Pattern
- ☐ SOLID Principles
- ☐ Coupling & Cohesion
- ☐ Abstraction vs Encapsulation
- ☐ Abstract Class vs Interface Class
- ☐ Overriding & Overloading
- ☐ Static & Dynamic Binding
- ☐ What is “this” pointer? What does it represent?
- ☐ Use of Super keyword
- ☐ Difference between a Structure and a Class
- ☐ Difference between Immutable and Mutable strings
- ☐ Up-casting and down-casting
- ☐ Differentiate between shallow and deep copy

Data Structure and Algorithms

- ☐ Implement Stack using Queue

- ☐ Write a program to implement a stack with push and pop functionality
- ☐ Implement Queue using Stack
- ☐ Middle of a Linked List
- ☐ Find Linked List is circular or not
- ☐ Insert/Delete at nth node of Linked List
- ☐ Merge two Linked Lists
- ☐ Reverse a Linked List
- ☐ Binary Search Tree
- ☐ Sorting Algorithms
- ☐ Complexities & Stability of Sorting Algorithms
- ☐ Difference between List, Array & Vector
- ☐ Expression Evaluation

Database

- ☐ DDL, DML, DQL, DCL
- ☐ Indexing & its methods
- ☐ Find the Employees who hired in the Last n months
- ☐ Deadlock and methods to remove it
- ☐ Anomalies in Database
- ☐ Normalization
- ☐ Joins and its Types
- ☐ Difference between Truncate and Drop
- ☐ Composite Key, Primary Key, Foreign Key
- ☐ Relationships
- ☐ Transaction, Commit & Rollback
- ☐ Views & Triggers
- ☐ ACID Properties
- ☐ SQL Queries
- ☐ Stored Procedures
- ☐ Subqueries
- ☐ Paging
- ☐ Difference between BETWEEN and IN operators in SQL
- ☐ Select all names that start with a given letter

- ☐ Name the student who has secured the third highest marks using subqueries

Coding Questions

- ☐ Let's say that you have an integer array with random numbers. Now write a program to shift all the larger numbers to the left of the array
- ☐ Write a program to find factorial of a number using a recursive and iterative method
- ☐ Write a program to find the second-highest number in an array
- ☐ Move all zeros of an array in the end with maintaining the order
- ☐ Print only the missing values from the sorted array
- ☐ Program to print a Fibonacci series
- ☐ Check if a string is a palindrome or not

Additional Questions

- ☐ SDLC Models
- ☐ SDLC Phases
- ☐ Scrum Framework
- ☐ Whitebox, Greybox and Blackbox Testing
- ☐ Scheduling Algorithms
- ☐ MVC Framework
- ☐ Unit testing & Integration Testing
- ☐ HTTP session
- ☐ TCP/IP model vs OSI model
- ☐ SOAP vs Restful API
- ☐ What are orphan threads? How are they created?
- ☐ POST & GET Request
- ☐ Cookies
- ☐