

Coding Questions

- Check if a number is a palindrome
- Check if a number is prime
- Find the factorial of a number
- Print Fibonacci series up to N terms
- Reverse a given number
- Reverse a given string
- Check if a string is a palindrome
- Find the sum of digits of a number
- Check if a number is even or odd
- Find the largest of three numbers
- Count the number of digits in a number
- Find the GCD of two numbers
- Find the LCM of two numbers
- Check if a number is an Armstrong number
- Print all prime numbers between 1 and N
- Find the second largest element in an array
- Find the smallest element in an array
- Calculate the sum of elements in an array
- Sort an array in ascending order
- Search an element in an array (linear search)
- Check if two strings are anagrams
- Count vowels and consonants in a string
- Remove duplicate elements from an array
- Find the frequency of each character in a string
- Swap two numbers without using a third variable
- Find the missing number in an array of 1 to N
- Check if a year is a leap year
- Print a pyramid pattern using stars
- Convert decimal to binary
- Find the power of a number without using built-in functions

Technical Questions

Object Oriented Programming

- What is Object-Oriented Programming?
- What is a class?
- What is an object?
- What is encapsulation?
- What is abstraction?
- What is inheritance?

- What is polymorphism?
 - What is method overloading?
 - What is method overriding?
 - What is a constructor?
 - What is a destructor?
 - What is the difference between class and object?
 - What is the difference between abstraction and encapsulation?
 - What is an interface?
 - What is an abstract class?
 - What is the difference between abstract class and interface?
 - What is dynamic binding?
 - What is static binding?
 - What is the use of the `this` keyword?
 - What is the `super` keyword?
 - What are access modifiers?
 - What is multiple inheritance?
 - What is the diamond problem?
 - What is upcasting and downcasting?
 - What is a virtual function?
 - What is runtime polymorphism?
 - What is compile-time polymorphism?
 - What is object cloning?
 - What is immutability?
 - What is a design pattern?
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Operating System (OS)

- What is an operating system?
- What are the main functions of an OS?
- What is a process?
- What is a thread?
- What is the difference between process and thread?
- What is multitasking?
- What is multithreading?
- What is context switching?
- What is deadlock?
- What are the necessary conditions for deadlock?
- What is starvation?
- What is aging in OS?
- What is CPU scheduling?
- What is a scheduling algorithm?
- What is FCFS scheduling?
- What is Round Robin scheduling?
- What is priority scheduling?
- What is paging?

- What is segmentation?
 - What is virtual memory?
 - What is a page fault?
 - What is demand paging?
 - What is thrashing?
 - What is semaphore?
 - What is mutex?
 - What is critical section?
 - What is inter-process communication (IPC)?
 - What is system call?
 - What is kernel?
 - What is user mode and kernel mode?
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Computer Networks (CN)

- What is a computer network?
- What are the types of networks (LAN, MAN, WAN)?
- What is the OSI model?
- How many layers are in the OSI model?
- What is the TCP/IP model?
- What is the difference between TCP and UDP?
- What is an IP address?
- What is IPv4 and IPv6?
- What is a MAC address?
- What is a port number?
- What is DNS?
- What is DHCP?
- What is HTTP?
- What is HTTPS?
- What is FTP?
- What is SMTP?
- What is packet switching?
- What is circuit switching?
- What is a router?
- What is a switch?
- What is a hub?
- What is the difference between hub, switch, and router?
- What is subnetting?
- What is bandwidth?
- What is latency?
- What is jitter?
- What is firewall?
- What is NAT?
- What is ARP?
- What is ICMP?

DBMS (Database Management System)

- What is DBMS?
- What is a database?
- What is the difference between DBMS and RDBMS?
- What is a table?
- What is a record?
- What is a field?
- What is a primary key?
- What is a foreign key?
- What is a candidate key?
- What is normalization?
- What are the normal forms?
- What is denormalization?
- What is an index?
- What is SQL?
- What are DDL commands?
- What are DML commands?
- What are DCL commands?
- What is a join?
- What are the types of joins?
- What is INNER JOIN?
- What is LEFT JOIN?
- What is RIGHT JOIN?
- What is FULL JOIN?
- What is a view?
- What is a stored procedure?
- What is a trigger?
- What is ACID property?
- What is a transaction?
- What is rollback?
- What is commit?