

Infosys – Technical Interview Results

Final Score: 26.51 / 100

Improvement Areas:

Question: Explain the concept of a deadlock in operating systems and provide an example of how it can be prevented.

Missing Key Terms: deadlock, mutex, semaphore

Missing Key Points: resource contention, circular wait, preemption

Question: Explain the concept of a firewall in a network and provide an example of how it can be configured to block malicious traffic.

Missing Key Terms: access control, packet filtering

Missing Key Points: network segmentation, traffic filtering, security policy

Question: Explain the concept of a service-oriented architecture (SOA) and provide an example of how it can be used to integrate multiple systems.

Missing Key Terms: interface

Missing Key Points: modularity, reusability, loose coupling

Question: Explain the concept of encapsulation in object-oriented programming and provide an example of how it can be used in a real-world scenario.

Missing Key Terms: inheritance, polymorphism

Missing Key Points: separation of data and methods, data hiding, abstraction

Question: Explain the concept of object-oriented programming and provide an example of how it can be used in a real-world scenario.

Missing Key Terms: inheritance, polymorphism, encapsulation

Missing Key Points: code reuse, modularity, abstraction

Question: Explain the concept of thread synchronization in operating systems and provide an example of how it can be used to solve a common problem.

Missing Key Terms: thread synchronization, mutex, semaphore

Missing Key Points: shared resource access, critical section, deadlock prevention

Question: What is SQL injection and how can it be prevented in a web application?

Missing Key Terms: input validation

Missing Key Points: malicious input, code execution, input sanitization

Question: What is the concept of a data warehouse and how is it used to support business intelligence and analytics?

Missing Key Terms: data warehouse, ETL, OLAP

Missing Key Points: data integration, data analysis

Question: What is the concept of a session in a web application and how is it used to maintain user state?

Missing Key Terms: cookie, server-side storage

Missing Key Points: user authentication, data persistence, state management

Question: What is the difference between a hash table and a binary search tree in a database?

Missing Key Terms: lookup time

Missing Key Points: fast lookup, slow lookup, insertion time

Question: What is the difference between a primary key and a foreign key in a database? Provide an example of how they are used in a real-world scenario.

Missing Key Terms: primary key, foreign key, referential integrity

Missing Key Points: unique identifier, relationship between tables, data consistency