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| Important coding round Q from VISA | https://www.geeksforgeeks.org/explore?page=1&company=Synopsys&sortBy=submissions | | | | | |
| Q. What is a Trie? | | | | | | |
| Q. Check if string 2 is the reverse of string 1 without using if-else statements. | | | | | | |
| Q. What is the difference between a HashMap and a HashSet, and what are their time complexities? | | | | | | |
| Q. Implement a stack and write unit tests for it. | | | | | | |
| Q. Explain your last project. | | | | | | |
| Q. What do you know about Agentic AI? | | | | | | |
| Q. What are the various types of IT General Controls (ITGC), and can you specify the type of control associated with each, such as preventive, detective, etc.? | | | | | | |
| Q. Tell me about yourself | | | | | | |
| Q. Find out if a number is even or odd without using if-else or any special operator | | | | | | |
| Q. Job designation senior system engineer (IAM, Azure portal, SaaS Applications, API integrations, Vulnerability Management) | | | | | | |
| Q. Do you anything related vulnerability management? | | | | | | |
| How do you support application for sso enablement? | | | | | | |
| Explain the react lifecycle functions and how they work | | | | | | |
| Css box model, difference between padding and margin | | | | | | |
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| Conceptual Questions | | | | | | |
| What are the four pillars of OOP? Explain with examples. | | | | | | |
| Difference between abstract class and interface in Java. | | | | | | |
| Explain Polymorphism with real code examples. | | | | | | |
| What is method overloading vs method overriding? | | | | | | |
| How does garbage collection work in Java? | | | | | | |
| What is the difference between == and equals()? | | | | | | |
| Explain hashCode() and equals() contract. | | | | | | |
| What are immutable objects? How do you create one? | | | | | | |
| Difference between ArrayList and LinkedList. | | | | | | |
| Explain ConcurrentHashMap and how it differs from HashMap. | | | | | | |
| How does synchronized work in Java? | | | | | | |
| What is the difference between wait() and sleep()? | | | | | | |
| Explain ThreadPoolExecutor in Java. | | | | | | |
| What are volatile, atomic, and locks? | | | | | | |
| What problems do race conditions cause, and how do you prevent them? | | | | | | |
| How to design a thread-safe singleton? | | | | | | |
| Explain the Executor framework. | | | | | | |
| Deadlock — causes and detection. | | | | | | |
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| Sample Coding Problems | | | | | | |

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| Reverse a linked list — iterative and recursive | | | | | | |
| Find k-th largest element in an array | | | | | | |
| Detect loop in linked list | | | | | | |
| LRU Cache implementation | | | | | | |
| Balanced parentheses problem | | | | | | |
| Binary tree level order traversal | | | | | | |
| Serialize & deserialize a binary tree | | | | | | |
| Dijkstra's shortest path algorithm | | | | | | |
| Find longest increasing subsequence | | | | | | |
| Maximum subarray sum (Kadane's algorithm) | | | | | | |
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| Sample SQL Problems | | | | | | |
| Find second highest salary from employee table | | | | | | |
| Count duplicate records in a table | | | | | | |
| Given tables A and B, find records in A not in B | | | | | | |
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| Behavioral & HR | | | | | | |
| Tell me about yourself. | | | | | | |
| Why Visa? | | | | | | |
| Strengths and weaknesses? | | | | | | |
| A time you dealt with conflict in a team. | | | | | | |
| A challenging bug you fixed. | | | | | | |
| A time you took initiative. | | | | | | |
| How do you handle deadlines? | | | | | | |
| What do you do when requirements change? | | | | | | |