

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					
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.					
Sample Coding Problems					

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)						
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						
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?						