DATA STRUCTURES INTERVIEW QUESTIONS

Master these Data Structures interview questions to confidently demonstrate problem-solving skills, impress interviewers, and strengthen your foundation for software development roles.

- [ ] **What is a data structure and why is it important?**
- [ ] **What is the difference between linear and non-linear data structures?**
- [ ] **Explain array vs linked list.**
- [ ] **What are advantages and disadvantages of arrays?**
- [ ] **Explain singly, doubly, and circular linked lists.**
- [ ] **What is a stack? Explain its operations.**
- [ ] **What is a queue? Types of queues.**
- [ ] **Difference between stack and queue.**
- [ ] **Explain recursion with an example.**
- [ ] **What is time complexity? Explain Big-Onotation.**
- [ ] **Difference between O(n), O(log n), and O(n²).**

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- [ ] **What is a tree? Explain types of trees.**
- [ ] **What is a binary tree and binary search tree (BST)?**
- [ ] **Explain tree traversal techniques.**
- [ ] **What is a heap? Difference between min-heap and max-heap.**
- [ ] **What is hashing? How does hash table work?**
- [ ] **What are hash collisions and how are they resolved?**
- [ ] **Difference between BFS and DFS.**
- [ ] **What is a graph? Types of graphs.**
- [ ] **Explain adjacency matrix vs adjacency list.**
- [ ] **What is dynamic programming?**
- [ ] **Difference between greedy and dynamic programming.**

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- [ ] **What is a trie and where is it used?**
- [ ] **What is searching? Explain linear and binary search.**
- [ ] **Explain sorting algorithms (bubble, selection, insertion).**
- [ ] **Difference between quick sort and merge sort.**
- [ ] **What is space complexity?**
- [ ] **What is amortized analysis?**
- [ ] **What is a circular buffer?**
- [ ] **Explain a real-world problem solved using data structures.**