

1. What is the difference between a stack and a queue?
2. Explain the concept of dynamic memory allocation in C.
3. How does a binary search algorithm work?
4. What is the time complexity of quicksort in the worst case?
5. What are the different types of operating system schedulers?
6. Explain the differences between TCP and UDP.
7. What is the purpose of a database index?
8. How does normalization help in database management?
9. What is the difference between HTTP and HTTPS?
10. Explain the working of a hash function in cryptography.
11. What are the advantages of object-oriented programming?
12. How does garbage collection work in Java?
13. What are the various types of machine learning algorithms?
14. Explain the concept of a neural network in deep learning.
15. How does a blockchain ensure data security?