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Capgemini Technical Interview:

1) **What do you mean by a Data structure?**
2) **What are some of the applications of DS?**
3) **What are the advantages of a Linked list over an array?**
4) **Write the syntax in C to create a node in the singly linked list.**
5) **What is the use of a doubly-linked list when compared to that of a singly linked list?**
6) **What is the difference between an Array and Stack?**
7) **What are the minimum number of Queues needed to implement the priority queue?**
8) **What are the different types of traversal techniques in a tree?**
9) **Why it is said that searching a node in a binary search tree is efficient than that of a simple binary tree?**
10) **What are the applications of Graph DS?**
11) **Can we apply Binary search algorithm to a sorted Linked list?**
12) **When can you tell that a Memory Leak will occur?**
13) **How will you check if a given Binary Tree is a Binary Search Tree or not?**
14) **Which data structure is ideal to perform recursion operation and why?**
15) **What are some of the most important applications of a Stack?**
16) **Convert the below given expression to its equivalent Prefix And Postfix notations.**
17) **Sorting a stack using a temporary stack**

18)Program to reverse a queue

19) Program to reverse first k elements of a queue

20)Program to return the nth node from the end in a linked list

21)Reverse a linked list

22)Replace each element of the array by its rank in the array

23) Check if a given graph is a tree or not

24) Find out the Kth smallest element in an unsorted array

25) How to find the shortest path between two vertices