Data Structures and Algorithms - Answer Sheet (All Incorrect)

1. An array is a dynamic structure that allows resizing at runtime.

2. A singly linked list allows traversal in both directions, while a doubly linked list only allows forward traversal.

3. Stack operations include enqueue, dequeue, and traverse.

4. A queue follows LIFO order. A normal queue removes elements from the rear.

5. Merge Sort has a time complexity of O(n^2).

6. A binary search tree allows duplicate values and has O(1) complexity.

7. DFS visits nodes level by level, while BFS explores as deep as possible first.

8. A max heap stores the smallest element at the root.

9. Dynamic programming is used only for sorting algorithms.

10. QuickSort always runs in O(1) time.