Real Test -2

1. Which search algorithm is more efficient for sorted lists?

* Linear Search
* Binary Search
* Quick Search
* Sequential Search

2. In which type of storage is Binary Search most effective?

* In-memory Storage
* Sequential Storage
* External Storage
* Cache Storage

3. Which sorting algorithm has the worst-case time complexity of O(n^2)?

* Quick Sort
* Merge Sort
* Insertion Sort
* Selection Sort

4. When is Insertion Sort more efficient than other sorting algorithms?

* Shortlists
* Long Lists
* Semi-sorted Lists
* Random Lists

5. What is the main advantage of Binary Search over Linear Search?

* Faster on Average
* Simplicity
* Lesser Memory Usage
* Handles Unsorted

6. Which sorting algorithm works by repeatedly selecting the minimum element and putting it at the beginning?

* Merge Sort
* Quick Sort
* Bubble Sort
* Selection Sort

7. Which type of list benefits the most from Bubble Sort?

* Shortlists
* Long Lists
* Semi-sorted Lists
* Random Lists

8. Which sorting algorithm exhibits a divide-and-conquer strategy?

* Merge Sort
* Insertion Sort
* Selection Sort
* Quick Sort

9. Which search algorithm can only be used on a sorted list?

* Linear Search
* Binary Search
* Depth-First Search
* Breadth-First Search

10. Which sorting algorithm has a time complexity of O(n log n) in average and worst cases?

* Bubble Sort
* Insertion Sort
* Merge Sort
* Selection Sort

11. What is the primary drawback of using Linear Search?

* Slower for Large
* Limited Applicability
* Requires Sorting
* High Memory Usage

12. Which sorting algorithm is known for its best-case time complexity of O(n)?

* Merge Sort
* Quick Sort
* Bubble Sort
* Insertion Sort

13. In which scenario does Binary Search perform exceptionally well compared to other algorithms?

* Long Lists
* Sequential Storage
* Shortlists
* Unsorted Lists

14. Which sorting algorithm is efficient for small lists or partially sorted lists?

* Selection Sort
* Quick Sort
* Merge Sort
* Bubble Sort

15. What is a key characteristic of Binary Search?

* Recursive Approach
* Comparison-based
* Requires Hashing
* Constant Time