

- Q.1. What are the types of searching? Write the C code of the searching techniques with an example?
- Q.2. Write 2 real world use cases of Binary search.
- Q.3. Write the C programs with for Insertion sort, bubble sort, and selection sort for an array of integers
- Q.4. Analyze the complexities of the these sorting algorithms
- Q.5. Explain why Insertion Sort is considered efficient for nearly sorted arrays
- Q.6. Modify the Insertion Sort algorithm to sort in descending order.
- Q.7. Compare Selection Sort with Bubble Sort in terms of comparisons and swaps.
- Q.8. Describe a real-world scenario where Linear Search would be more suitable than Binary Search.
- Q.9 Modify the Linear Search function to return the number of occurrences of a given element in an array.
- Q.10 Implement a recursive version of Binary Search and compare it with the iterative version.
- Q.11. What will the Binary Search function return if the element is not found in the array?