**Sorting Algorithms:**

* **Bubble Sort:** A simple sorting algorithm that repeatedly steps through the list, compares adjacent elements, and swaps them if they are in the wrong order. The pass through the list is repeated until the list is sorted.
* **Insertion Sort:** A simple sorting algorithm that builds the final sorted array (or list) one item at a time. It is much less efficient on large lists than more advanced algorithms such as quicksort, heapsort, or merge sort.
* **Quick Sort:** A divide-and-conquer algorithm that picks an element as a pivot, partitions the given array around the picked pivot, and then recursively applies the above steps to the sub-array of elements with smaller values and separately to the sub-array of elements with greater values.
* **Merge Sort:** A divide-and-conquer algorithm that divides the input array into two halves, calls itself for the two halves, and then merges the two sorted halves.