Quick Sort

= Based on the principle Divide and Conquer

= An array is divided into subarrays by selecting a pivot element

= Elements less than pivot are kept on left side and greater on the right side.

= This process continues until each subarray contains a single element and finally the array is sorted.

Radix sort

sorts the elements by first grouping the individual digits of the same place Then sorted according to their increasing / decreasing order.

Bucketsort:- Divides unsorted array elements into small groups and each group is sorted by a suitable algorithm.

Shell Sort: sorts elements that are far apart from eachother and successively reduces the interval between the elements.

Insertion sort

Values from the unsorted array are picked and placed at the correct position in the sorted part.

Bubble sort

It compares two adjacent elements and swaps them until they are not in inded order.

Selection Sort

Selects the smallest element from an unsorted array in each iteration and places them in the beginning of unsorted list

Merge sort

Based on the principle Divide and Conquer. Divide the problem into subproblem. Solve the unsorted array recursively until solved. Combine the ~~final~~ solutions to get final solution.