Sorting Algorithms

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A Sorting Algorithm is used to rearrange a given array or list elements according to a comparison operator on the elements. The comparison operator is used to decide the new order of elements in the respective data structure.

Classification of Sorting Algorithms:

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1. Traditional Sorting:
2. Comparison Sorting:
3. Linear Time Sorting:

Traditional Sorting:

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1. Bubble Sort:
2. Selection Sort:
3. Insertion Sort:

Comparison Sorting:

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1. Merge Sort:
2. Quick Sort:

Linear Time Sorting:

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1. Counting Sort:
2. Radix Sort:
3. Bucket Sort: