**Complexities of Sorting Algorithms**

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| **Algorithms** | **Best case** | **Average case** | **Worst case** |
| Merge sort | O(n log n) | O(n log n) | O(n log n) |
| Quick sort | O(n log n) | O(n log n) | O(n^2) |
| Heap sort | O(n log n) | O(n log n) | O(n log n) |
| Bubble sort | O(n) | O(n^2) | O(n^2) |
| Insertion sort | O(n) | O(n^2) | O(n^2) |
| Selection | O(n^2) | O(n^2) | O(n^2) |