The following is a cheat sheet of the time complexities of various algorithms.

**Algorithms Cheat Sheet**

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| **Algorithm** | **Best Case** | **Average Case** | **Worst Case** |
| Selection Sort | O(n^2) | O(n^2) | O(n^2) |
| Bubble Sort | O(n) | O(n^2) | O(n^2) |
| Insertion Sort | O(n) | O(n^2) | O(n^2) |
| Tree Sort | O(nlogn) | O(nlogn) | O(n^2) |
| Radix Sort | O(dn) | O(dn) | O(dn) |
| Merge Sort | O(nlogn) | O(nlogn) | O(nlogn) |
| Heap Sort | O(nlogn) | O(nlogn) | O(nlogn) |
| Quick Sort | O(nlogn) | O(nlogn) | O(n^2) |
| Bucket Sort | O(n+k) | O(n+k) | O(n^2) |
| Counting Sort | O(n+k) | O(n+k) | O(n+k) |