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| **Sorting Algorithms** | **Average Case** | **Worst Case** |
| 1. Bubble Sort | O(n2) | O(n2) |
| 1. Quick Sort | O(nlogn) | O(n2) |
| 1. Insertion Sort | O(n2) | O(n2) |
| 1. Selection Sort | O(n2) | O(n2) |
| 1. Heap Sort | O(n log(n)) | O(n log(n)) |
| 1. Bucket Sort | Ω(n + k) | O(n2) |
| 1. Merge Sort | O(nlog(n)) | O(nlog(n)) |
| 1. Shell Sort | Ω(n log(n)) | O(n2) |
| 1. Radix Sort | Ω(nk) | O(nk) |
| 1. Count Sort | Ω(n+k) | O(n +k) |