

Project 2 Analysis

Run Times of Sorting Algorithms

Phillip Janowski

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| Algorithm | Best Case | Average Case | Worst Case |
|-------------|----------------|----------------|----------------|
| Quick Sort | $O(n \log(n))$ | $O(n \log(n))$ | $O(n^2)$ |
| Merge Sort | $O(n \log(n))$ | $O(n \log(n))$ | $O(n \log(n))$ |
| Bubble Sort | $O(n)$ | $O(n \log(n))$ | $O(n \log(n))$ |