Analysis

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A3

The comparisons of times are shown below for Bubble sort vs. the STL sort method. The bubble sort runs at O(n^2), while the STL appears to be much faster, though without the code we can’t conduct formal analysis of it. For 80,000 data points, STL took 74 time units to execute, while at 8000 data points, it took 6 time units to execute. This is approximately O(n) time for the STL sort.