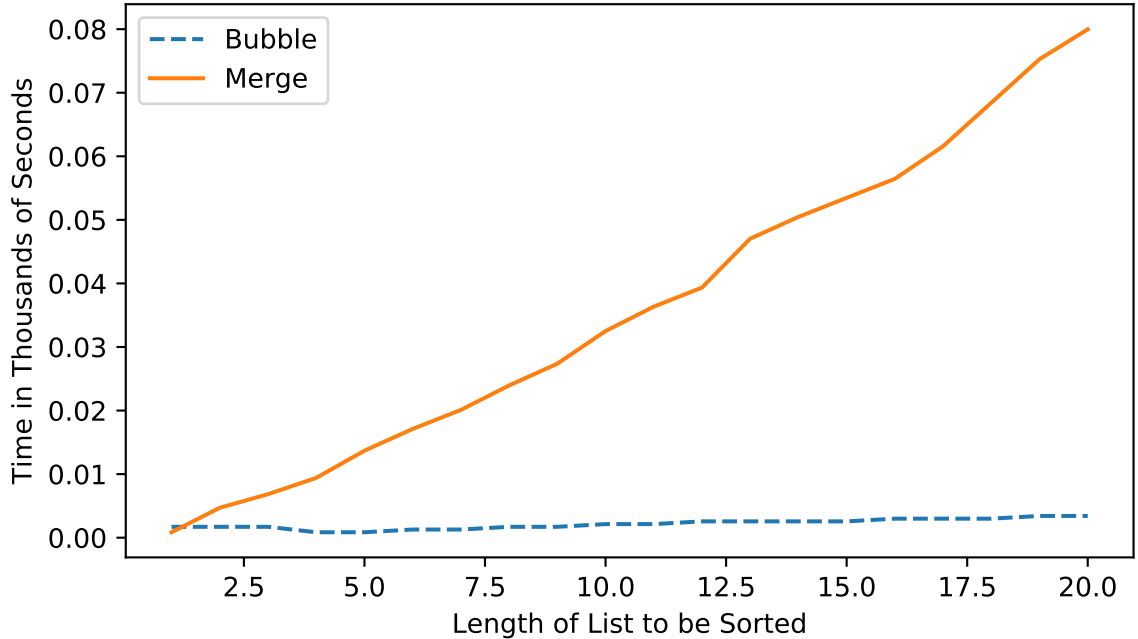


Computation Time for Bubble and Merge Sorting Algorithms



The plot displays the time required for each algorithm to sort a list of the length indicated on the x-axis. The most simple complexity for the bubble algorithm is $O(n)$, or linear, and the most complex, $O(n^2)$, or squared. The merge algorithm will always be of complexity $O(n \log n)$.