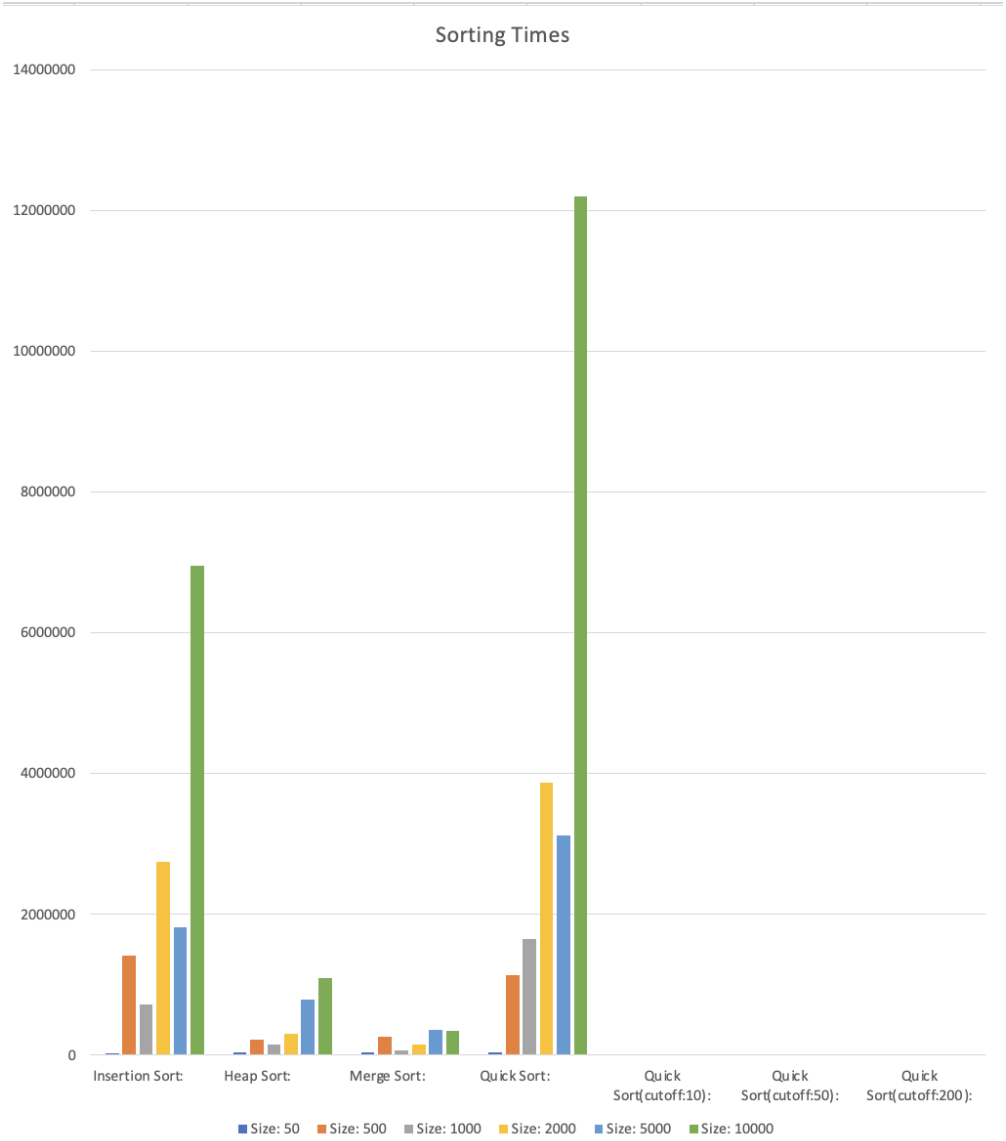
jak210005 - CS 3345 Assignment 3 README



(Y axis is performance time in nanoseconds, and X is array size. Performance of last three are too relatively small to be displayed on the graph)

This program compares the performance of various sorting algorithms, including Insertion Sort, Heap Sort, Merge Sort, and Quick Sort, along with an optimized version of Quick Sort with a cutoff. It tests these algorithms on arrays of varying sizes, ranging from 50 to 10,000 elements, and measures their sorting times using System.nanoTime() for precision. The results demonstrate significant differences in efficiency and scalability between the algorithms, particularly highlighting the effectiveness of the Quick Sort optimization for smaller arrays.