

Assignment 6 Report

Corey McCrea

12/14/18

This algorithm assignment was very interesting because we got to legitimately test some real-world scenarios for different run times. I first attempted to run it on a million or so numbers but that took bubble sort way too long. I went back to the drawing board and attempted testing on 100,000 numbers and that gave me reasonable separation between run times without the whole process taking extremely long. The run time differences between these algorithms were much more drastic than I expected. Comparing big O on paper is one thing but getting to try these out was informative. Bubble Sort took way longer to run than quick sort but then it is also clear how quick sort is much more complicated to implement than one of the sorting algorithms with a big O of n squared. My timing method was quick and dirty so that might be one pitfall of this empirical analysis because that is one of the key components of this kind of assessment.