The N2 Algorithms showed a massive difference in the graphs on how much time they take vs the n Log(n) Algorithms. They were also noticeably a lot longer to compute for my computer. I first attempted to compute 1,000,000 with the N2 Algorithms but after about 40 minutes of waiting I decided to kill the program as it just took way too long to compute even for my 4.0Ghz Quad-Core processor. As the graphs below show, they clearly start diverging the bigger the size gets.

The n Log(n) Algorithms were so fast that I had to increase the size of the vector just to even see any change at all. The graphs clearly show the difference in speed. I wanted to go higher than 10,000,000 but I will have to save that for my own personal curiosity in the future. I was quite surprised with how close Quick Sort and Standard sort were in time but Standard Sort still won by a tiny margin. Overall, this assignment has proved that n Log(n) Algorithms are the way to go.