Project 3 Report

	Size	Minimum	Average	Median	Standard Deviation	Maximum
Create Max	1,000	18.0000	22.1270	22.0000	2.0062	31.0000
Create Average	1,000	12.0685	13.3733	13.2588	0.6936	17.5045
Delete Max	1,000	318.0000	355.3440	356.0000	9.8014	391.0000
Delete Average	1,000	145.9068	181.0088	181.0270	10.2231	216.3367
Reinsert Max	1,000	321.0000	357.1650	357.0000	9.8224	394.0000
Reinsert Average	1,000	158.2455	180.6647	180.7214	6.1865	202.7807

Looking over this table, we observe that our six dependent variables (two for each of the three experimental conditions) which include Create Max, Create Average, Delete Max, Delete Average, Reinsert Max, and Reinsert Average all have a size of 1,000 simulation trials. During this instance, I'm noticing that all the averages and medians are fairly close amongst each other as the largest amount between the two is in Delete Max with 0.656. Regarding the standard deviations, the information given here shows us that it is the highest for Delete Average and Reinsert Max. Following that, we see within Reinsertion that the maximum after Deletion has increased by 3 but the average has decreased by 13.556. Comparing these results to the two stock market simulation techniques, we already know that the Normal SP500 and Sampled SP500 have a trial size of 10,000 simulations as well as a much larger outcome. The Sampled SP500 definitely had the better performance of the two. In terms of P3, after multiple runs I feel that the simulations worked properly with an efficient run time in turn giving us the results we were looking for.