Michael Schloss

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CIS 3501

Professor John P. Baugh

**Project 3 Reasoning**

First, I noticed that with the data I collected, the Quick Sorting method has the faster average time for all except the 2500 set vector, however, it was very close. I believe this is because the Insertion Sort method manages the values one by one and every element is moved. Whereas, the Quick Sort method compares first, so it only moves the necessary elements, instead of every one of them individually. I can see the Insertion Sort being the faster method with very small sized vectors, but Quick Sort is definitely faster for the bigger vectors (according to the data collected).