Project Report

**Black shaded bars took the shortest time of all the data sets.**

After running these census files multiple times, I concluded that insertion sort is only good for small size files only. When testing large files with insertion sort, it took a while to sort the whole data. For small files, insertion sort (O(n^2)) can sort almost as fast or even a little faster than merge sort (O(nlgn)) and quick sort (O(nlgn)). All in all, insertion sort is the slowest compared to merge sort and quick sort. When sorting large data files, merge sort and quick sort are probably the better two algorithms for sorting.