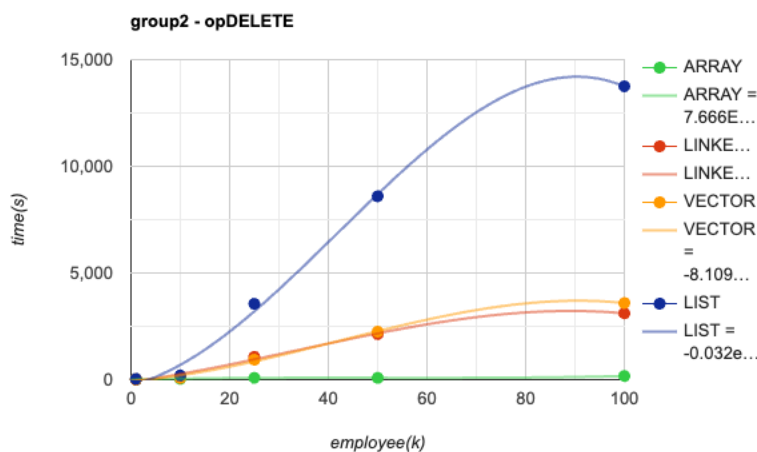
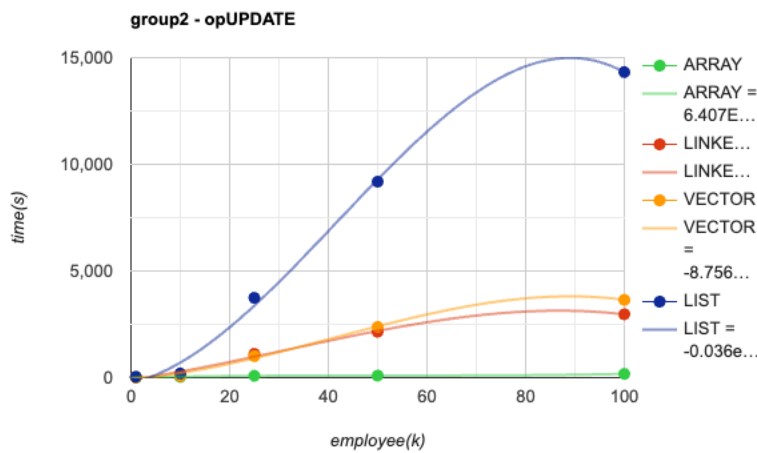
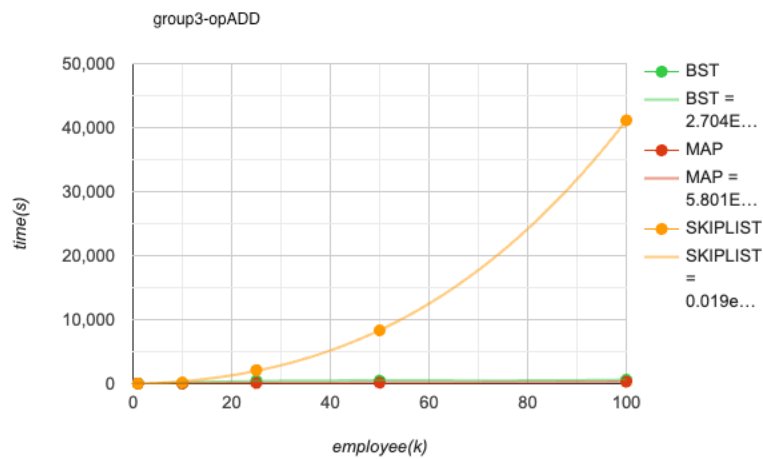
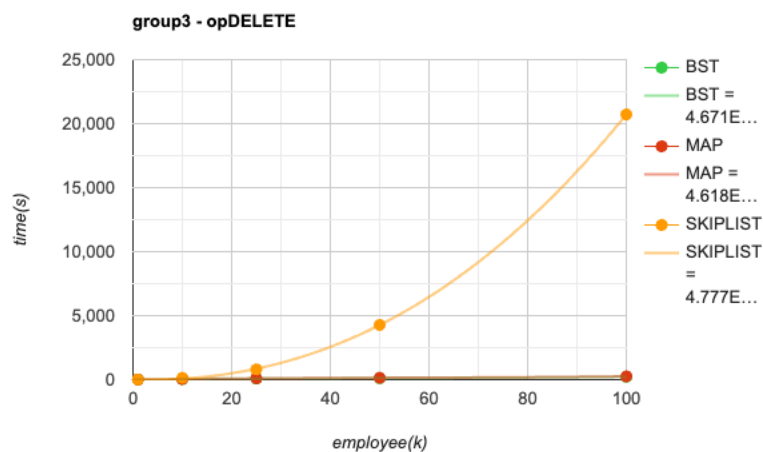
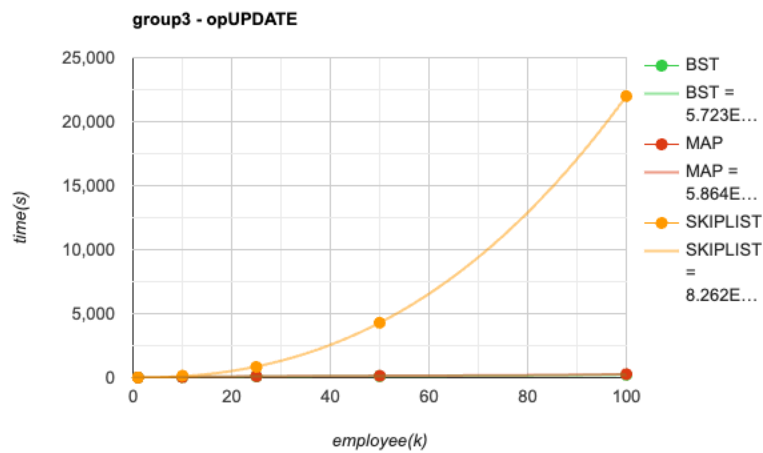


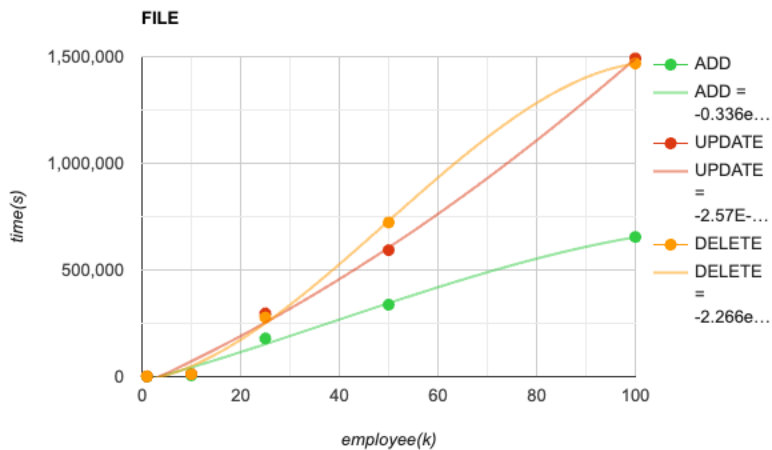
Array, linkedlist, vector, and list's time complexities are almost same for addition, but for update and deletion, list structure remained at a disadvantage and array is the best one in these four.





Skiplist again has the largest time complexity, so much so that analyzing other data structures is very difficult in this graph.





For this assignment, I created dataset and operator creators. I used the dataset and operations I obtained with these to create graphs. I used 100k operations to test the time of files with 50k and 100k employees. I used 10k operations for 25k and 1k operations for lower ones. Since the output of my file code took a very long time and completely corrupted the other graphics, I decided to show it in a separate graphic. The codes and data I use are available in the zip file.

I used this site to plot the data:: <https://www.rapidtables.com/tools/scatter-plot.html>