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**Google vs Coding:**

This HW6 I felt myself doing a little bit more coding than I thought I would have. For bubble and selections sort I did use online sources to help guide me how to do it, but I did not copy any one algorithm. Since these were the simpler algorithms I figured they would be questions on the test and that I better practice as much as I can. As for merge sort I did need a lot of help on and found an easier to follow algorithm and used that one. Since it was my first time working with sorts I did still find that it was difficult to implement the merge sort into my own program.

**Comparing sort times:**

The java collections sort was the quickest sort and finished on average in about 46ms. The next quickest was the merge sort which averaged about 56ms. I would expect merge sort to be quicker because its splitting the data into smaller lists and comparing from there. Instead of making a lot of passes through the entire data. Selection sort was then next which averaged about 10,100ms which is to be expected when you are making a lot of passes through the array. As we all expected, bubble sort was the slowest sort that averaged 45,000ms to finish. Depending on what computer I used for the bubble sort, the times really differed. When I used my tower, I got an average of 45,000 but when I used my laptop I would sometimes get more than 100k ms. Of course this is to be expected with bubble sort but it just surprised me that it took that long to finish.