**Recursive Sorts Write-Up**

Thankfully, implementing these algorithms was not too difficult. My biggest mistake came in adding alternative pivot locations for quick sort. I greatly overworked that particular issue and wrote an absurd amount of code to accomplish the task before the email came out about just swapping items, which I did not realize was a valid option but was thankfully so much easier to implement.

Monte Carlo Statistics (Merge in Green, QuickSort Pivot First in Purple, Pivot Last in Black, Pivot Random in Red)

Chart

Description automatically generated

Ascending Order (Pivot First and Pivot Last are the same)

Chart, line chart

Description automatically generated

Chart

Description automatically generated

Descending Order (Pivot First and Pivot Last are the Same)

Not bothering with two pictures as everything except for Pivot Random is identical

Chart, line chart

Description automatically generated