## PA 02 Write Up

For data generation, we began with the randomized set which we then ordered for the ascending and descending sets, finishing by randomizing it again and substituting 20% and 40% of the values with already present values. To check if our algorithms were working properly, we ran the supposedly sorted sets through checker algorithms.

An interesting and noticeable effect the character data seemed to have on the relative speed of the algorithms was drastically increasing the time taken to sort ascending sets without proportionally similar change to time taken to sort other sets, as seen below:

Chart, line chart

Description automatically generatedChart, line chart

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