Runsort Report

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Tests

We have run our sorting algorithm on the following inputs from tiny.txt, words3.txt and 1990-out.txt from the congress assignment. The results from every inputs where sorted.

Our implementation of runsort was based on bottom-up mergesort that was given in the book. However, we modified the sort method so it would sort accordingly to the runsort algorithm.

Extension

Our implementation will also switch to insertion sort for sequences of length at most 8. We performed test with and without this extension for random inputs of size 1990 and 2000. The implementation were slightly faster than runsort but we were not able to detect any great improvement in running time. Our tests would probably be more precise if we used a larger size of inputs compared to what we had used.