## Runsort Report

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by Report Group AB (Adrian Brink, Asger Pedersen, Simon Flachs, Troels Møller)

## **Tests**

We have run our sorting algorithm on the following inputs; all were sorted: test1.txt, test2.txt, test3.txt, test4.txt, test5.txt. These files are all included in the hand in.

## Extension

Our implementation switches to insertion sort for sequences of length at most 8. We performed tests with and without this extension for random inputs of size 1,000,000. Runsort took 1.520 seconds while FancyRunsort took significantly longer: 20.253 seconds. (For these measurements we outcommented the print statements in the source code). The test input file with 1,000,000 random letters is included as temp.txt. We have also included the simple Java program abcgen.java which we wrote in order to create the large input file.