# Runsort

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## Tests

We have run our sorting algorithm on the following inputs from the book; all were sorted: tiny.txt and words3.txt. All tests on codeJudge were solved correctly.

We also ran our sorting algorithm on 2Kints.txt (included). The algorithm fails on this input, due to the nature of the compareTo method. Our implementation focuses on the lexicographic sort which does not analyze the values of integers very well.

## Extensions

Our implementation switches to insertion sort for sequences of length at most 8. We performed test with and without this extension for random inputs of size 1,000,000, but we were not able to detect any significant improvement in running time. It is noteworthy that the running time for the insertion sort implementation had a higher standard deviation on runs than the basic RunSort.