

CS 385
Homework Assignment
Due by Fri, Sep 19, 1pm

Prof. Dietrich

Assignment

- Do Levitin, problem 6, page 83 and problem 3, page 106.
- Implement both InsertionSort and QuickSort in C.
- Write a program `sorttest.c` which asks the user for two integers n, m . Then for m repetitions, the program generates an array of n random integers in the range $0..n$ and sorts them by InsertionSort, and then, for m repetitions, sorts an array of n numbers by QuickSort. (Look at solutions to the previous homework to see how to do this.)
- Find out which method is best on arrays of various sizes.

Submit

- The solutions to the problems in Levitin.
- The code for `sorttest.c`, in a typescript, with your inputs and outputs.
- A short write-up (a paragraph or two) describing which sorting algorithm performed best and when.