

Sorting Algorithms in C

This project contains various sorting algorithms implemented in C. Each are tested in terms clocks and with an ascending, descending, and random permutation of integers from 1 to n.

Files

The project contains bash scripts to automatically compile and execute the sorting algorithms.

- **run.sh**: Script to compile and run the given sorting algorithm C program.
- **run3x.sh**: Script to compile and run the given sorting algorithm C program thrice.

How to Use

Compilation and Execution:

To compile and run the program, use the scripts as follows:

```
./run.sh <filename> <arraysize> asc # ascending permutation  
./run.sh <filename> <arraysize> desc # descending permutation  
./run.sh <filename> <arraysize> rand <seed> # random permutation  
./run3x.sh <filename> <arraysize> asc # ascending permutation 3x  
./run3x.sh <filename> <arraysize> desc # descending permutation 3x  
./run3x.sh <filename> <arraysize> rand <seed> # random permutation 3x
```