A2:T1: Generic quicksort

Programming Languages and Paradigms Seminar

Approach

This program uses c++ templates in order to achieve the generic type behaviour. The implementation of the quicksort is a classic lomuto partitioning. The partition function receives vectors of generic types and uses the auto feature of c++ in order to initialise the value of the pivot. This is crucial in order to keep type compatibility.

Running the program

Navigate to the directory and run the make command. This will produce a binary executable for you to run like ./a.out.

Deleting the program

You may use the make clean command to delete the produced binary.

Screenshot

Figure 1: quicksort