

Algorithm Engineering

Exercise No. 8

Monday 8th December, 2014

Submission

- (1) Submit your solution with `$ git request-pull` (or similar) to jkm@informatik.uni-jena.de. Attach your plots.

1 Comparing against `std::sort`

Compare your implementations against `std::sort` by plotting their running time for various kinds of inputs. Tune your implementation(s) until the running time of the best implementation is at least within a factor of two to three for all kinds of inputs.

2 Heapsort

Implement the heapsort algorithm. Make use of pre conditions, post conditions and invariants.