

Computing for mathematics: week 4

Sorting and Searching Algorithms

Aims of this week

At the end of this lecture students will be:

- Familiar with selection sort and bubble sort.
- Familiar with sequential search and binary search.

Timeline

Lab Sheet

- Description and implementation of sorting algorithms
- Description and implementation of searching algorithms

Lecture

- 0 - 5 mins: Recap
- 5 - 15 mins: Brief theoretical analysis of algorithms
- 15 - 35 mins: Solutions of Lab sheet
- 35 - 45 mins: Questions?
- 45 - 50 mins: Introduction to next week

After the lecture Students will be given access to lab sheets and pointed towards reading.

Assessment

This will be assessed in the class test.