

The Description and Analysis of Algorithms: Pseudocode Conventions, Algorithms for Sorting, Correctness and Running Time

The attached excerpt from *Introduction to Algorithms* by Cormen, Leiserson, Rivest, and Stein [1] covers the following topics:

- the pseudocode conventions used to describe algorithms,
- two fundamental algorithms for sorting, INSERTION-SORT and MERGE-SORT, and
- the general techniques used to analyze algorithms (correctness and running time), and the specific application of these techniques to sorting algorithms.

In CSU200, we shall cover each of these topics in the first few weeks of the term, though not necessarily in the same order as presented in this extract.

References

- [1] Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein. *Introduction to Algorithms*. McGraw-Hill Higher Education, 2001.