

DM508 – Algorithms and Complexity – 2012

Lecture 2

Lecture, January 30

We began with an introduction to the course. Lower bounds from section 2.4 of the first part of the notes were discussed (part of this is also in section 8.1 of the textbook).

Lecture, February 1

We will cover sections 3.1, 3.2 and 3.3 of the DM508 notes, plus median finding from chapter 9 (section 9.3) in the textbook.

Lecture, February 6

We will cover the lower bound on median finding from section 3.5 in the DM508 notes. We will begin on NP-completeness, from chapter 34 in the textbook and the section by Papadimitriou and Steiglitz from the course notes.

Problems to be discussed on February 8

Do problems:

1. 9.3.1, 9.3.2, 9.3-3, 9.3.4, 9.3-7, 9.3-9,
2. 34.1-3, 34.1-5, 34.2-3.