

DM551 – Algorithms and Probability – 2018

Lecture 6

Lecture, September 17

We covered most of section 7.4 (Example 9 was be done using the Insertion Sort algorithm on the last lecture note, along with the analysis there. This is the preferred InsertionSort.)

Lecture, September 24

We will finish section 7.4, with an example using Chebyshev's Inequality. We will cover sections 8.5 and 8.6.

Lecture, September 26

We will begin on chapter 13 in *Algorithm Design* by Kleinberg and Tardos.

Problems to be discussed on October 2

1. Section 8.5: 5, 8, 12, 15.
2. Section 8.6: 3, 6, 8, 14, 15, 18, (prepare 15a in advance and bring to class – ideas for the proof can be found in the answers at the back of the textbook), 21.