

DM19 – Algorithms and Complexity – E05 – Lecture 6

Lecture, October 5

We finished with Fibonacci heaps and began on string matching from chapter 32, covering the first two sections and introducing finite automata from section 32.3.

Lecture, October 12

We will finish with string matching from chapter 32 and begin on Huffman codes from section 16.3.

Lecture, October 19

No lecture or discussion sections this week.

Lecture, October 26

We will finish with Huffman codes. Then, we will begin on NP-completeness from chapter 34 in the textbook and the section by Papadimitriou and Steiglitz from the first set of notes. This will include a brief introduction to undecidability. For more details on undecidability, see chapter 5 of the textbook by Lewis and Papadimitriou (or Part 2 of Sipser's textbook), which is on reserve for DM17 in the library.

Problems to be discussed in week 43

- 32.4-1, 32.4-3, 32.4-4, 32.4-5.
- 16.3-1, 16.3-2, 16.3-7.