

DM551 – Fall 2021 – Weekly Note 8

This note covers weeks 42-44 and also contains some information about week 45.

Stuff covered in week 41

We covered

- Kleinberg and Tardos 13.9
- Midterm evaluation of the course. I will compile a list with those comments that got many votes and comment on these. The list will be made available on itslearning in Week 43.

Activities in Weeks 42-44:

- There are no classes scheduled for Weeks 42 and 43.
- The exercise classes in Week 44 will be CANCELLED (there is no new material to do exercises on).
- The lecture on November 5 is replaced by a video lecture on Rosen sections 8.1-8.2. The video is available from itslearning under Course media gallery.

Lectures in week 45

There are two lectures and they will both be on flows in networks. The material for this is Cormen 3rd ed. Sections 26.1-26.3. You may also use Bang-Jensen and Gutin Chapter 3, sections 3.1-3.6.1. Note that these pages contain more material than we will cover so if you have access to Cormen, you should use that is the primary source.

- The Maximum flow problem. Cormen 26.1
- The Ford Fulkerson method. Cormen 26.2
- The Edmonds Karp algorithm. Last part of Cormen 26.2
- If there is time we will also talk about the bipartite matching problem. Cormen 26.3

Exercises in week 45

These will be announced later.