Institut for Matematik & Datalogi
Syddansk Universitet

February 19, 2003
JBJ

DM69 — Weekly note 3

Change of schedule

We decided to move the monday time slot to thursday 10-12 in U49A (just opposite of the seminarroom). We will generally use the thursday hours for exercises.

Handed out material last week

Chapter 3 from the book "Digraphs: Theory, Algorithms and Applications, Bang-Jensen and Gutin, Springer Verlag London 2001.

Material covered in the lectures on February 13 and 14, 2003

Flows in Networks, Sections 3.1-3.6 and 3.8-3.9 in Bang-Jensen and Gutin, Digraphs.

Lecture on February 21, 2003

Sections 3.10 and 3.11 in Bang-Jensen and Gutin, Digraphs.

Exercises on February 27, 2003

- Read the subsection 3.6.3 about the preflow push algorithm and be prepared to be able to explain how it works and to derive the complexity of the algorithm.
- Read Section 3.7 in Bang-Jensen and Gutin, Digraphs and be prepared to explain why one can obtain better complexities in the case of unit capacity and simple networks.
- 3.24, 3.26, 3.29, 3.33, 3.34, 3.35, 3.45 in Bang-Jensen and Gutin, Digraphs.

Lecture on February 28, 2003

The assignment and transportation problems, section 3.12 in Bang-Jensen and Gutin, Digraphs.