Institut for Matematik & Datalogi
Syddansk Universitet

April 11, 2003
JBJ

DM69 — Weekly note 10

Handed out material Friday, April 4, 2003

Chapter 30 in the old version of Cormen, Leiserson and Rivest.

Material covered in week 15

- Sections 30.2 to 30.4 in Cormen.
- Sections 47.4-47.5 in The Handbook.

Next week

No classes, have a nice easter.

Exercises on April 24, 2003

These are canceled.

Lecture on April 25, 2003

Cormen chapter 27 on sorting networks.

Exam questions

For the stuff we have covered until now, the following are the possible questions (main questions).

1. Shortest paths in digraphs.
2. The maximum (s,t)-flow problem and the minimum (s,t)-flow problem.
3. Polynomial algorithms for maximum flows.
4. Minimum cost flows.
5. The assignment problem and the transportation problem.
6. Matchings: characterizations and algorithms.
7. Matroids and the greedy algorithm.
8. Matroid intersection and matroid partition: algorithms and applications.
9. Scheduling: basic concepts and examples of proofs.
10. PRAM algorithms.