Institut for Matematik og Datalogi
Syddansk Universitet

May 4, 2015
JFB

DM553 Lecture 16 — DM508 Lecture 7

Lecture, May 4

We covered section 3.5 from the notes. Then we began on approximation algorithms from chapter 35 of CLRS, covering up to and including section 35.2.

Lecture, May 6 (in U10)

We will continue with approximation algorithms from chapter 35 of CLRS, covering sections 35.3 and 35.5.

Lecture, May 11

We will finish with approximation algorithms (skipping MAX-3-SAT since that is done in another course) and possibly begin on median finding from section 9.3 in CLRS.

Problems to be discussed in U142 on May 12

Do the following problems in CLRS:

1. 35.3-1, 35.1-2, 35.3-5.
2. 35.5-1, 35.5-2, 35.5-3, 35.5-4.
3. 35-1. (For part (a), you might consider reducing from the set-partition problem which is defined in exercise 34.5-5. Note that first-fit actually has an approximation ration better than 2, but that result is harder to prove.)