Institut for Matematik og Datalogi
Syddansk Universitet

February 7, 2014
JFB

On-Line Algorithms – F14 – Lecture 3

Lecture, February 5

We covered up through Lemma 1.3 in chapter 1 in the textbook.

Lecture, February 10

We will finish chapter 1 and begin on chapter 2 in the textbook. (We may finish chapter 2 in a discussion section.)

Lecture, February 13

Kim Skak Larsen will lecture on chapter 3 and begin on chapter 4.

Problems for February 17

1. Exercise 2.1 in the textbook.
2. Exercise 2.3 in the textbook (but only for the static case).
3. Show that there is a request sequence on which BIT's performance ratio is no better than $\frac{7}{4}$ in the partial cost model. (It is sufficient to look at lists of length 2.)
4. Do Exercise 2.4. Note that the lower bound will depend on p, rather than being $2 - \epsilon$.
5. How do you define BIT and COMB in the dynamic model?
6. Do Exercise 2.5 in the textbook.