Institut for Matematik og Datalogi Syddansk Universitet April 16, 2009 JFB

On-Line Algorithms – F09 – Lecture 3

Lecture, April 15

We continued with chapter 1 in the textbook, covering up through Lemma 1.3.

Lecture, April 27

We will finish chapters 1 and 2 in the textbook.

Lecture, May 1

We will begin on chapter 3 in the textbook.

Problems for May 4

- 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 2ϵ .
- 5. How do you define BIT and COMB in the dynamic model?
- 6. Do Exercise 2.5 in the textbook.