Homework CS 789 Spring 2011, March 1, 2011

1. Prove that MRU is not competitive.

2. Prove that MBL is 2-competitive.

3. Prove that $\frac{1}{2}$LRU + $\frac{1}{2}$MBL is $\frac{3}{2}$-competitive.

(Additional space to work problem 3.)

One possible way to construct the graph:

