Homework #2- due April 12, 2006

- 1. Linz, Section 1.2: 11(b), 14(c), 18(b) 2.1: 2(a), 5(b), 9(g)
- 2. Let M be the dfa in file JHW1 and let L = L(M).
 - (a) Give a description of L in set notation.
 - (b) Modify *M* by making the state q1 non- final and q2 final. What language does the modified dfa accept? Describe the language in set notation.
 - (c) Modify M so that it accepts L^2 .
- 3. Let *M* be the dfa in file JHW2. Modify *M* so that it accepts $L(M) \cup \{a\}$.

Note: Please hand in JFLAP files for problems 2(c) and 3.

Use the handin utility on CSIF for electronic submission:

For example, if you're submitting the file "problem_2c.jff" as part of homework #2, use the following command on your CSIF account:

> handin shini hw2 problem_2c.jff