600.271 Automata & Computation Theory
Assignment 1
Due February 7, 2013

I. Problem Set 2, Problem 1 (page 45) - L_1, L_4, L_{11}, L_{20}.

II. Problem Set 2, Problem 7 (page 46) - L_1, L_8, L_{19}. (By the right congruence lemma only. The pairs of numbers associated with the problems represent the difficulty of the problems; ignore them.)

III. Prove that the following language is not an fa language by the right congruence lemma.

$$\{ab^n a^{2n} |\ n \geq 1\}$$