CSE 322 Spring'07: HW 7
Due back Friday June 1st

Reading Assignment: Chapters 3, 4 of Sipser. The relevant parts from Chapter 3 are the definitions of Turing machines, decidable and recognizable languages, but do go through the examples of TMs there.

Problems for Submission: Submit any 3 of the following problems:

- Show that the following sets are countable by giving injections to and from $\mathbb{Z}$
  a) The set of squares $\{x^2 \mid x \in \mathbb{Z}\}$.
  b) The set of Prime numbers.

- Problem 3.15

- Problem 3.16

- Problem 4.12

- Problem 4.16