CSE 4111/5111 —Winter 2014

Posted: Feb 23, 2014
Due: TBA—three weeks minimum

Problem Set No. 2

NB. *All problems are equally weighted and will be assigned a letter grade; an overall letter grade for the paper will be computed using York's 0–9 gpa scale.*

This is not a course on *formal* recursion theory. Your proofs should be informal (but $\neq$ sloppy), correct, and informative (and if possible short). Please do not trade length for correctness or readability.

All problems are from "Theory of Computation".

(1) Do Exercises 2.5.0.30 (p.171) and 2.6.0.33 (p.173).

(2) From Section 2.12 (p.234 and onwards) do: 23, 24, 30, 31, 35, 42.

(3) From Section 2.12 (p.237 and onwards) do **from scratch, without invoking Rice's Theorem!**: 46, 47, 54