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## COSC 4111/5111 —Winter 2013

Posted: Feb 23, 2013 Due: TBA—three weeks minimum

## Problem Set No. 2

**NB.** All problems are equally weighted out of 5. The problem set list for grad students is the entire list here. Undergrads should omit the problems (*if any*) marked "Grad". If they wish to do some of those for extra credit the extra credit will be applied on an "all or nothing" basis. That is, **no part marks will be given** for a "Grad" problem attempted by undergrads.

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.

Most problems are from "Theory of Computation".

- Do Exercises 2.5.0.15 (p.163), 2.5.0.30 (p.171) and 2.6.0.33 and 2.6.0.34 (p.173).
- (2) From Section 2.12 (p.234 and onwards) do: 20, 22, 26, 29, 36, 42.
- (3) From Section 2.12 (p.237 and onwards) do: 44, 49, 52, 54 without Rice's Theorem!

