Problem Set 12 (for pre-exam practice only)

CSC 280, 2006

Try these by Monday May 1, 2006

Problem 1
Show that the general geography game remains PSPACE-complete even if we allow at most 2 edges to emerge from any node. *Hint*: Modify the proof of Theorem 8.14.

Problem 2
Show that $A_{\mathrm{DFA}} \in L$

Problem 3
Show that A_{NFA} is NL-complete.

Problem 4
Sipser Problem 8.27 (p. 332).