Princeton University | Fall 2002
COS 487: Theory of Computation | Prof. Amit Sahai

Assignment 5

Released: 14 Oct - Due: 23 Oct | *TA: Manoj M P*

Please limit each solution to at most *one page* (unless otherwise specified).

1. Let $IE_{\mathsf{DFA}} = \{\langle M_1, M_2\rangle | M_1, M_2 \text{ are DFAs and } L_{M_1} \cap L_{M_2} = \phi\}$. Show that IE_{DFA} is decidable. (Max 3-4 lines.)

2. Problem 4.17.

3. Problem 3.16.

* 4. Problem 4.22.