

Finite Automata and Formal Languages  
TMV026/DIT321 – LP4 2010

**Context-Free Languages**

**Week 6 and 7**

In these exercises, book sections, exercise numbers and pages refer to those in the third edition of the course book.

1. Do exercises 7.1.1 – 7.1.6.
2. Do exercise 7.1.9.
3. Do exercise 7.1.10.
4. Do exercise 7.2.1 parts a), b) and d).
5. Do exercise 7.2.2.
6. Prove that the language  $\mathcal{L} = \{0^n 1^m 0^n 1^m \mid n, m \geq 0\}$  is not a CFL.
7. Do exercise 7.3.1 parts a) and b).
8. Do exercise 7.3.2.
9. Do exercise 7.3.4 parts a), b) and c).
10. Do exercise 7.4.1 part a)
11. Do exercises 7.4.3 and 7.4.4.