

Finite Automata and Formal Languages
TMV026/DIT321 – LP4 2012

Context-Free Languages

Week 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 7.3.6.
11. Do exercise 7.4.1 part a)
12. Do exercises 7.4.3 and 7.4.4.