

Finite Automata Theory and Formal Languages
TMV027/DIT321 – LP4 2014

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.