DM553 – Complexity and Computability – 2016 Lecture 5

Lecture, February 11

We finished chapter 1 and section 2.1. We defined push-down automata from section 2.2 and looked at a first example.

Lecture, February 15

We will cover the equivalence of context-free languages and the languages accepted by push-down automata from section 2.2 and non-context-free languages from section 2.3.

Lecture, February 29

We will do examples using the pumping lemma for context-free languages. We will begin on Turing Machines from chapter 3, covering section 3.1 and beginning on 3.2.

Problems to be discussed in U14 on March 1

- 1. Page 154: 2.2.
- 2. Page 155: 2.5c,d.
- 3. Page 158: 2.42.
- 4. Pages 156: 2.12, 2.16.