Formal Languages and Complexity
Proseminar

Week 14 [24.1.2017 /25.1.2017]

Task 1 Which language is generated by the following grammar $G = (V, \Sigma, S, R)$ for $V = \{S, A, B\}, \Sigma = \{a, b, c\}$ and

$$R = \{S \to cA, S \to bB, A \to c, B \to aB, B \to b\}?$$

Task 2 Construct a grammar and a PDA for the language

$$L = \{w \in \{a, b\}^* \mid \#_b(w) = 2\#_a(w)\}.$$

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Task 3 Construct a grammar and a PDA for

$$L = \{uwu^R \in \{a, b\}^* \mid \#_a(w) = \#_b(w)\}.$$