Formal Languages and Automata Theory, SS 2017. Homework 4 (due Week 5)

- 1. Construct finite automata equivalent to the grammars of type 3 from Homework 1 (https://merascu.github.io/links/SS2018FLAT/FLATHW1.pdf), exercise 2.
- 2. Construct finite automata recognizing the following languages:
 - (a) $L = \{PSDR, PNL, PUNR\}$
 - (b) $L = \{w | w \text{ is a binary string ending in } 1\}$
 - (c) $L = \{w | w \text{ is an identifier in C language}\}$
 - (d) $L = \{w|w \text{ is an integer constant with sign in C language}\}$
 - (e) $L = \{w | w \in \{0, 1\}^* \text{ and } w \text{ is a multiple of } 3\}$
 - (f) $L = \{a^i b^j | i, j > 0\}$
 - (g) $L = \emptyset$