

Talen en Automaten

Additional assignments for exercise class on Fri 8th Dec, 2017

1 Non-regular languages via closure properties

Show that $L = \{wv \in \{a, b\}^* \mid |w| = |v| \text{ and } w \neq v\}$ is not regular.

2 Pumping lemma

Show that the language $L = \{ucv \mid u, v \in \{a, b\}^*, u \text{ appears as subword in } v\}$ over the alphabet $\{a, b, c\}$ is not regular.