

Talen en Automaten

Additional assignments for exercise class on Fri 19th Jan, 2018

- a) Recall the language L of palindromes:

$$L = \{w \in A^* \mid w = w^R\}.$$

Give a PDA that accepts L , and show that aba is accepted but ab is not.

- b) Use the algorithm from the lecture to construct a CFG for the language L of palindromes, using the PDA in your answer to the previous question.
- c) Use the construction from the lecture to give a PDA accepting the language generated by the following grammar:

$S \rightarrow aS \mid Sb \mid ab \mid SS$
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