

## 2IT90 Instruction 2: automaton engineering, context-free grammars

1. (Sipser Problem 1.45) Show that the class of regular languages is closed under the operations `NOPREFIX` and `NOEXTEND`, i.e. if  $A$  is a regular language then `NOPREFIX`( $A$ ) and `NOEXTEND`( $A$ ) are regular languages too.

- `NOPREFIX`( $A$ ) =  
 $\{ w \in A \mid \text{no proper prefix of } w \text{ is a member of } A \}$
- `NOEXTEND`( $A$ ) =  
 $\{ w \in A \mid w \text{ is not the proper prefix of any string in } A \}$

2. (HMU Exercise 4.2.2) For a language  $L \subseteq \Sigma^*$  and symbol  $c \in \Sigma$  the quotient operation  $L/c$  is defined by

$$L/c = \{ w \in \Sigma^* \mid wc \in L \}$$

Prove that  $L/c$  is a regular language if  $L$  is a regular language.

3. For a language  $L \subseteq \Sigma^*$  we define

$$\text{NOISY}(L) = \{ w_0 a_1 w_1 \cdots a_n w_n \mid n \geq 0, w_0, w_1, \dots, w_n \in \Sigma^*, \\ a_1, \dots, a_n \in \Sigma, a_1 \cdots a_n \in L \}$$

So, `NOISY`( $L$ ) consists of strings of  $L$  that may have arbitrary strings inserted at zero, one or more places.

Prove that `NOISY`( $L$ ) is a regular language if  $L$  is a regular language.

(Hint: The related operator `LOSSY` has been discussed in the lectures.)

4. (Sipser Problem 1.33) For a language  $L \subseteq \Sigma^*$  we define the language `DROP-OUT`( $L$ ) by

$$\text{DROP-OUT}(L) = \{ xz \in \Sigma^* \mid \exists a \in \Sigma: xaz \in L \}$$

Prove that `DROP-OUT`( $L$ ) is regular if  $L$  is regular.

5. Give CFGs that generate the following languages.

- (a)  $\{ a^n b^m \mid n \leq m \leq 2n \}$
- (b)  $\{ w \in \{a, b\}^* \mid \#_a(w) = \#_b(w) \}$
- (c)  $\{ w \in \{a, b, c\}^* \mid \#_a(w) + \#_b(w) = \#_c(w) \}$
- (d) The complement of  $\{ a^n b^n \mid n \geq 0 \}$  in  $\{a, b\}^*$ .

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<sup>9</sup>HMU: textbook of Hopcroft, Motwani & Ullman

# Automaton Instruction

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