

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 $\text{NOPREFIX}(A)$ and $\text{NOEXTEND}(A)$ are regular languages too.

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

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, $\text{NOISY}(L)$ consists of strings of L that may have arbitrary strings inserted at zero, one or more places.

Prove that $\text{NOISY}(L)$ 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 $\text{DROP-OUT}(L)$ by

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

Prove that $\text{DROP-OUT}(L)$ 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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