

# Automata Theory - Homework II (Solutions)

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## 1 Problems

1. Let  $L$  be a regular language not containing  $\lambda$ . Argue that there exists a right-linear grammar for  $L$ , whose productions are restricted to the forms:

$$\begin{aligned} A &\rightarrow \alpha B, \text{ and} \\ A &\rightarrow \alpha \end{aligned}$$

where  $A$  and  $B$  are generic variables and  $\alpha$  is a generic terminal.

**Solution:** In class, we showed that every regular language can be represented as a DFA  $M = (Q, \Sigma, \delta, q_0, F)$ , where the symbols should be interpreted using the standard convention. Since,  $L$  is  $\lambda$ -free, it must be the case that  $q_0 \notin F$ . We construct the following Right-Linear Grammar  $G = (V, T, S, P)$  for  $L$ :

- (a) We use symbol  $A_i$  to denote state  $q_i$ .  $V = \{A_i : i = 0, 1, \dots, |Q| - 1\}$ .
- (b) The set of terminals  $T$  is precisely  $\Sigma$ .
- (c)  $S = A_0$ .
- (d) The productions  $P$  of  $G$  are defined as follows: For each transition,  $\delta(q_i, \alpha) = q_j$ , add the production  $A_i \rightarrow \alpha A_j$ . If  $q_j$  is also a final state, then add the production  $A_i \rightarrow \alpha$ .

We use induction on the number of transition steps to show that if  $\delta(q_0, w) \in F$ , then  $A_0 \Rightarrow^* w$ . Likewise, we use induction on the number of steps in a leftmost derivation to establish that if  $A_0 \Rightarrow^* w$ , then  $\delta(q_0, w) \in F$ .

(The induction proofs are straightforward exercises).  $\square$

2. Consider the language  $L = \{a^n : n \text{ is not a perfect square}\}$ . Prove that  $L$  is not regular, by using the Pumping Lemma. You may not use complement properties of regular languages.

**Solution:** One way of showing that  $L$  is not regular is through the following argument: If  $L$  is regular, then so is  $L^c$ ; however, we showed in class that  $L^c$  is not regular and hence  $L$  cannot be regular. Since you were expressly forbidden from using the complement properties of regular languages, let us proceed to prove the non-regularity of  $L$ , using first principles.

Assume that  $L$  is regular and let  $M = (Q, \Sigma, \delta, q_0, F)$  denote the unique minimal state DFA for  $L$ , where the symbols in the tuple have their usual meaning. Let  $p$  denote the number associated by the Pumping Lemma with  $L$ ; we know that  $p = |Q|$ . Let  $G = \{a^{p^2+i} : i = 1, 2, \dots, 2p\}$ ; we can think of the strings in  $G$  as being indexed by their length after subtracting the offset  $p^2$ . Using  $w_i$  to refer to the string  $a^{p^2+i}$ , we have that  $|w_i| + 1 = |w_{i+1}|$ .

Let  $R = \{\delta(q_0, w_i) : w_i \in G\}$ ; we use  $r_i$  to denote  $\delta(q_0, w_i)$ ,  $w_i \in G$ .

The following observations are in order:

- (i) All the states in  $R$  are final states.

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**Rosina Ehmann**



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## **Table of Contents Automata Theory Homework Ii Solutions**

1. Understanding the eBook Automata Theory Homework Ii Solutions
  - The Rise of Digital Reading Automata Theory Homework Ii Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Automata Theory Homework Ii Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Automata Theory Homework Ii Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Automata Theory Homework Ii Solutions

- Personalized Recommendations
  - Automata Theory Homework Ii Solutions User Reviews and Ratings
  - Automata Theory Homework Ii Solutions and Bestseller Lists
5. Accessing Automata Theory Homework Ii Solutions Free and Paid eBooks
    - Automata Theory Homework Ii Solutions Public Domain eBooks
    - Automata Theory Homework Ii Solutions eBook Subscription Services
    - Automata Theory Homework Ii Solutions Budget-Friendly Options
  6. Navigating Automata Theory Homework Ii Solutions eBook Formats
    - ePub, PDF, MOBI, and More
    - Automata Theory Homework Ii Solutions Compatibility with Devices
    - Automata Theory Homework Ii Solutions Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Automata Theory Homework Ii Solutions
    - Highlighting and Note-Taking Automata Theory Homework Ii Solutions
    - Interactive Elements Automata Theory Homework Ii Solutions
  8. Staying Engaged with Automata Theory Homework Ii Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Automata Theory Homework Ii Solutions
  9. Balancing eBooks and Physical Books Automata Theory Homework Ii Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Automata Theory Homework Ii Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Automata Theory Homework Ii Solutions
    - Setting Reading Goals Automata Theory Homework Ii Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Automata Theory Homework Ii Solutions

- Fact-Checking eBook Content of Automata Theory Homework Ii Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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