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1. Introduction to Automata theory

~~*Introduction to Automata Theory | MODULE 1
| Automata Theory and Computability |
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If w has an odd number of 1's, then so does z . By the inductive hypothesis, $\delta\text{-hat}(A,z) = B$, and the transitions of the DFA tell us $\delta\text{-hat}(A,w) = B$. Thus, in this case, $\delta\text{-hat}(A,w) = A$ if and only if w has an even number of 1's. Case 2: $a = 1$. If w has an even number of 1's, then z has an odd

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number of 1's.

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Exercise 3.1.1 (a) The simplest approach is to consider those strings in which the first a precedes the first b separately from those where the opposite occurs.

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(c) Let it be pumping the lemma standing (note that this is not relevant to what is a local variable in the definition of L language). Choose w^n10^n . Then when we write w and xyz , we know that θ , so we have to choose untidy w .

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Solutions for Section 3.2 Exercise 3.2.1

*Part (a): The following are all $R \theta$ expressions; we list only the subscripts.
 $R_{11} = \varepsilon+1$; $R_{12} = \theta$; $R_{13} = \text{phi}$; $R_{21} = 1$;*

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$R_{22} = \epsilon$; $R_{23} = \emptyset$; $R_{31} = \phi$; $R_{32} = 1$; $R_{33} = \epsilon + \emptyset$. Part (b): Here all expression names are R (1); we again list only the subscripts.

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Solutions for Section 7.2 Exercise

7.2.1(a) Let n be the pumping-lemma constant and consider string $z = a^n b^{n+1} c^{n+2}$. We may write $z = uvwxy$, where v and x , may be "pumped," and $|vwx| \leq n$. If vwx does not have c 's, then uv^3wx^3y has at least $n+2$ a 's or b 's, and thus could not be in the language.

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Using Exercise 2.2.2, $\delta\text{-hat}(q, 0, x, k) = \delta\text{-hat}(\delta\text{-hat}(q, 0, x, k-1), x) = \delta\text{-hat}(q, f, x)$ [by the inductive hypothesis] = $q, f[a]$. Exercise 2.2.10. The automaton tells

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whether the number of 1's seen is even (state A) or odd (state B), accepting in the latter case.

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2 What is Automata Theory? n Study of abstract computing devices, or "machines" n Automaton = an abstract computing device n Note:A "device" need not even be a physical hardware! n A fundamental question in computer science: n Find out what different models of machines can do

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1.1.3 Automata theory Automata Theory deals with definitions and properties of different types of “computation models”. Examples of such models are:

- **Finite Automata.** These are used in text processing, compilers, and hardware design.
- **Context-Free Grammars.** These are used to define programming languages and in Artificial Intelligence.

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switch positions, and also must indicate whether the previous roll came out at D, i.e., whether the previous input was accepted. Let 0 represent a position to the left (as in the diagram) and 1 a position ...

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$\delta\text{-hat}(A,w) = B$. Thus, in this case, $\delta\text{-hat}(A,w) = A$ if and only if w has an even number of 1's. Case 2: $a = 1$. If w has an even number of 1's, then z has an odd number of 1's.

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Solutions for Section 3.2 Exercise 3.2.1

Part (a): The following are all R \emptyset expressions; we list only the subscripts.

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 $R_{22} = \varepsilon$; $R_{23} = \emptyset$; $R_{31} = \text{phi}$; $R_{32} = 1$; $R_{33} = \varepsilon+\emptyset$. Part (b): Here all expression names are R (1); we again list only the subscripts.**

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Using Exercise 2.2.2, $\delta\text{-hat}(q_0, x^k) = \delta\text{-hat}(\delta\text{-hat}(q_0, x^{k-1}), x) = \delta\text{-hat}(q_f, x)$ [by the inductive hypothesis] = q_f [by (a)].

Exercise 2.2.10. The automaton tells whether the number of 1's seen is even (state A) or odd (state B), accepting in the latter case.

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2 What is Automata Theory? n Study of abstract computing devices, or "machines" n Automaton = an abstract computing device

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n Note: A “device” need not even be a physical hardware! n A fundamental question in computer science: n Find out what different models of machines can do and cannot do n The theory of computation n Computability vs. Complexity

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1.1.3 Automata theory Automata Theory deals with definitions and properties of different types of "computation models". Examples of such models are: • Finite Automata. These are used in text processing, compilers, and hardware design. • Context-Free Grammars. These are used to define programming languages and in Artificial Intelligence.

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