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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 and cannot do n The theory of computation n Computability vs. Complexity

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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 $z = uvwx$, 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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Introduction to Automata Theory, Languages and Computing Solutions for Chapter 4 Solutions for Section 4.1 Exercise 4.1.1 (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 $w \leq n$. Then when we write w and xy , we know that 0 , 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 expressions; we list only the subscripts. $R_{11} = \epsilon + 1$; $R_{12} = 0$; $R_{13} = \phi$; $R_{21} = 1$; $R_{22} = \epsilon$; $R_{23} = 0$; $R_{31} = \phi$; $R_{32} = 1$; $R_{33} = \epsilon + 0$. Part (b): Here all expression names are $R(1)$; we again list only the subscripts.

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