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Introduction to Automata Theory, Languages, and ...

Introduction To Automata Theory Solutions Introduction to Automata Theory, Languages, and Computation Solutions for Chapter 2 Revised 9/6/01. Solutions for Section 2.2 Exercise 2.2.1(a) States correspond to the eight combinations of switch positions, and also must indicate whether the previous roll came out at D, i.e., whether the

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If whas an odd number of 1's, then so does z. By the inductive hypothesis, δ-hat(A,z) = B, andthe transitions of the DFA tell us δ-hat(A,w) = B. Thus, in this case, δ-hat(A,w) = Aif and only if whas aneven number of 1's. Case 2: a= 1. If whas an even number of 1's, then zhas an odd numberof 1's.

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Introduction to Automata Theory, Languages, and Computation Solutions for Chapter 3 Solutions for Section 3.1 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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Solutions for Section 3.2 Exercise 3.2.1 Part (a): The following are all R 0 expressions; we list only the subscripts. R11 = ?+1; R12 = 0; R13 = phi; R21 = 1; R22 = ?; R23 = 0; R31 = phi; R32 = 1; R33 = ?+0. Part (b): Here all expression names are R (1); we again list only the subscripts.

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Introduction to Automata Theory, Languages, and Computation is an influential computer science textbook by John Hopcroft and Jeffrey Ullman on formal languages and the theory of computation. Rajeev Motwani contributed to the 2000, and later, edition.

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Using Exercise 2.2.2, ?-hat(q 0,x k) = ?-hat(?-hat(q 0,x k-1),x) = ?-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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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| <= n. If vwx does not have c's, then uv 3 wx 3 y 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'n10'n. Then when we write w and xyz, we know that 0, so we have to choose untidy w.

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If w has an odd numberof 1's, then so does z. By the inductive hypothesis, ?-hat(A,z) = B, and the transitions ofthe DFA tell us ?-hat(A,w) = B. Thus, in this case, ?-hat(A,w) = A if and only if w has aneven 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.

IntroductiontoTheoryofComputation

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1.1.3 Automata theory Automata Theory deals with de?nitions and properties of di?erent 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 de?ne programming lan-guages and in Arti?cial Intelligence.

INTRODUCTION TO Automata Theory, Languages, and Computation

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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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