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 previous input was accepted. Let 0 represent a position to the left (as in the diagram) and 1 a position to the right. Each state can be represented by a sequence of three 0's or 1's, representing the directions of the three switches, in order from left to right. We follow these three bits by either a indicating it is an accepting state or r, indicating rejection. Of the 16 possible states, it turns out that only 13 are accessible from the initial state, 000r. Here is the transition table:

	A	B
->000r	100r	011r
*000a	100r	011r
*001a	101r	000a
010r	110r	001a
*010a	110r	001a
011r	111r	010a
100r	010r	111r
*100a	010r	111r
101r	011r	100a
*101a	011r	100a
110r	000a	101a
*110a	000a	101a
111r	001a	110a

Exercise 2.2.2

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Joacim Rocklöv

Introduction To Automata Theory Languages And Computation Solution:

Introduction to Automata Theory, Languages, and Computation John E. Hopcroft,Rajeev Motwani,Jeffrey D. Ullman,2003 With this long awaited revision the authors continue to present the theory in a concise and straightforward manner with an eye out for the practical applications *Introduction to Automata Theory, Languages, and Computation* John E. Hopcroft,Jeffrey D. Ullman,1979 Preliminaries Finite automata and regular expressions Properties of regular sets Context free grammars Pushdown automata Properties of context free languages Turing machines Undecidability The Cohmsky hierarchy Heterministic context free languages Closure properties of families of languages Computational complexity theory Intractable problems Highlights of other important language classes **Mobile Speech and Advanced Natural Language Solutions** Amy Neustein,Judith A. Markowitz,2013-02-03 Mobile Speech and Advanced Natural Language Solutions presents the discussion of the most recent advances in intelligent human computer interaction including fascinating new study findings on talk in interaction which is the province of conversation analysis a subfield in sociology sociolinguistics a new and emerging area in natural language understanding Editors Amy Neustein and Judith A Markowitz have recruited a talented group of contributors to introduce the next generation natural language technologies for practical speech processing applications that serve the consumer s need for well functioning natural language driven personal assistants and other mobile devices while also addressing business need for better functioning IVR driven call centers that yield a more satisfying experience for the caller This anthology is aimed at two distinct audiences one consisting of speech engineers and system developers the other comprised of linguists and cognitive scientists The text builds on the experience and knowledge of each of these audiences by exposing them to the work of the other **Introduction to Formal Languages, Automata Theory and Computation** Kamala Krithivasan,2009-09 Introduction to Formal Languages Automata Theory and Computation presents the theoretical concepts in a concise and clear manner with an in depth coverage of formal grammar and basic automata types The book also examines the underlying theory and principles of computation and is highly suitable to the undergraduate courses in computer science and information technology An overview of the recent trends in the field and applications are introduced at the appropriate places to stimulate the interest of active learners *Emerging Solutions for Future Manufacturing Systems* Luis M. Camarinha-Matos,2006-01-04 Industries and particularly the manufacturing sector have been facing difficult challenges in a context of socio economic turbulence characterized by complexity as well as the speed of change in causal interconnections in the socio economic environment In order to respond to these challenges companies are forced to seek new technological and organizational solutions In this context two main characteristics emerge as key properties of a modern automation system agility and distribution Agility because systems need not only to be flexible in order to adjust to a number of a priori defined scenarios but rather must cope with unpredictability Distribution in the sense that automation and business processes are becoming

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