

# 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  $D_i$  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  $\alpha$  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	В
->000r	100r	011r
*000a	100r	011r
*001a	101r	000a
010r	110r	001a
*010a	110r	001a
011r	1111	010a
100r	010r	1111
*100a	010r	1111
101r	011r	100a
*101a	011r	100a
110r	000a	101a
*110a	000a	101a
1111	001a	110a

Exercise 2.2.2

# <u>Introduction To Automata Theory Languages And Computation Solution</u>

Ray Bryant, Brian W. Unger

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Chivers, Jane Sleighthome, 1990 An introduction to the venerable computer language based on the interactive environment it is now used in microcomputers linked terminals of a mainframe rather than on the off line program preparation punch cards it was designed for Sets out the desiderata of modular programming and structured program design then shows how to accomplish them with Fortran 77 Updated to reflect the language s evolution since the 1984 first edition Annotation copyrighted by Book News Inc Portland OR Fundamentals of Computation Theory, 1989

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