

# Automata Theory Homework Ii Solutions

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Solution: Consider the DFA  $D_1 = (Q; \delta; q_0; F)$  of  $L$ ; we construct the following DFA  $D_2 = (Q; \delta; q_0; F_0)$ , where a state  $q_i \in F_0$ , if and only if,  $\delta(q_i; a) \in F$ . It is clear that  $D_2$  accepts precisely those strings  $w$ , such that  $wa \in L$ . In other words,  $D_2$  is the DFA accepting  $Q \circ a(L)$ , thereby establishing that  $Q \circ a(L)$  is regular. 2 5.

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1 Problems 1. Let  $L$  be a regular language not containing  $\lambda$ . Argue that there exists a right-linear grammar for  $L$ , whose productions are restricted to the forms:  $A \rightarrow aB$ , and  $A \rightarrow a$

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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.

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M. Sipser: Introduction to the

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homework, each subproblem is graded separately out of 10

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Homework (10 x 2%). There will be ten weekly homework assignments , each worth 2% of your course grade. Homework will be graded based on effort rather than correctness, using the following grading scheme: 2% for a good-faith effort (more than half of the problems attempted), 1% for some effort (less than half of the problems attempted), and 0% ...

## **CS 181 Languages and Automata Theory**

This document contains solutions to the exercises of the course notes Automata and Computability. These notes were written for the course CS345 Automata Theory and Formal Languages taught at Clarkson University. The course is also listed as MA345 and CS541. The solutions are organized according to the same chapters and sections as the notes.



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## **Automata and Computability - Clarkson University**

Automata Theory Write the Regular Expression (only 1) for the Following: (i) That only accepts the word 'aaba'. (ii) Accepts all words that contain a double letter (e.g. aa, bb)

## **Automata Theory Write The Regular Expression (only ...**

Solutions for Section 2.5 Exercise 2.5.1 For part (a): the closure of  $p$  is just  $\{p\}$ ; for  $q$  it is  $\{p,q\}$ , and for  $r$  it is  $\{p,q,r\}$ . For (b), begin by noticing that  $a$  always leaves the state unchanged. Thus, we can think of the effect of strings of  $b$ 's and  $c$ 's only.

## **Introduction to Automata Theory, Languages, and ...**

This Theory of Automata - TOC Assignment Help that has been started by Mywordsolutions is acting as a boon for the students from the past so many years. This Online Theory of Computation Assignment Help was launched keeping in view that the scholars are facing a lot of difficulties while solving the projects and

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homework related to TOC.

## **Theory of Automata Assignment Help, Theory of Computation**

Formal Languages and Automata Theory Homework # 3 For each of the following, give a DFA that accepts the specified language. Exercises to be handed in from Part I include 1,3 and 28. Exercises to be handed in from Part II include 4 and 6. Part I  
1. The set of strings over  $\{a, b, c\}$  in which all a 0 s preceded the b 0 s, which in turn precede ...

## **homework 3 - Problems - Formal Languages and Automata ...**

CPS 482/582 (3 hours) Formal languages (regular, context-free, recursive, and recursively enumerable), machine models (deterministic and non-deterministic finite automata, push down automata, Turing machines), grammars (regular, context-free,

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and unrestricted), interplay among these concepts, Church-Turing thesis, and undecidability.

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