

# Automata Theory Homework Ii Solutions

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### Automata Theory Homework Ii Solutions

Automata Theory - Homework II (Solutions) Automata Theory - Homework II (Solutions) K Subramani LCSEE, West Virginia University, Morgantown, WV fksmani@cseewvuedug 1 Problems 1 Suppose that you are given the DFA  $D_L$  of a regular language  $L$  Design an algorithm to check that  $L$  contains at least 50 strings

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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  $Qota(L)$ , thereby establishing that  $Qota(L)$  is regular. 2 5.

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## **Automata Theory - Homework II (Solutions)**

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Design of finite automata, pushdown automata, linear bounded automata, Turing machines ... M. Sipser: Introduction to the Theory of Computation, Thomson Course Technology ... For each homework, each subproblem is graded separately out of 10 points. At the end of the semester, all the homeworks will be scaled to have equal weights.

## **Automata and Computation Theory**

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.

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

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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 ...**

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

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