

Pushdown Automata Exercises

We start with standard problems on building pda for a given language, ending with more challenging problems. ...to be continued ...

1. Construct pushdown automata for the following languages. Acceptance either by empty stack or by final state.

- (a) $\{ a^m b^n a^n \mid m, n \in \mathbb{N} \}$
- (b) $\{ a^m b^n c^m \mid m, n \in \mathbb{N} \}$
- (c) $\{ a^i b^j c^k \mid i, j, k \in \mathbb{N}, i > j \}$
- (d) $\{ a^i b^j c^k \mid i, j, k \in \mathbb{N}, i + j = k \}$
- (e) $\{ a^i b^j c^k \mid i, j, k \in \mathbb{N}, i + k = j \}$
- (f) $\{ a^n b^m \mid n \leq m \leq 2n \}$
- (g) $\text{PAL} = \{ w \in \{a, b\}^* \mid \text{mir}(w) = w \}$
- (h) $\{ w_1 c w_2 c \dots c w_k c x \mid x, w_1, \dots, w_k \in \{a, b\}^*, k \in \mathbb{N}, x = \text{mir}(w_j) \text{ for some } j \}$
- (i) $\{ w \in \{a, b\}^* \mid \#_a(w) = \#_b(w) \}$, $\#_a(w)$ represents the number of a 's in w
- (j) $\{ w \in \{a, b\}^* \mid \#_a(w) = 2 \cdot \#_b(w) \}$

2. More languages.

- (a) $\{ w \in \{a, b\}^* \mid w \text{ equals } x\text{mir}(x) \text{ met } x \in \{a, b\}^* \}$
- (b) $\{ w \in \{a, b\}^* \mid w \text{ does not equal } x\text{mir}(x) \text{ for some } x \in \{a, b\}^* \}$
- (c) $\{ w \in \{a, b, c\}^* \mid w \text{ does not equal } xcx \text{ for some } x \in \{a, b\}^* \}$
- (d) $\{ w \in \{a, b\}^* \mid w \text{ does not equal } xx \text{ for some } x \in \{a, b\}^* \}$

3. Construct a pda with final state acceptance for the language

$$B = \{ \text{bin}(i) \$ \text{mir}(\text{bin}(i+1)) \mid i \geq 0 \} \subseteq \{0, 1, \$\}^*$$

Here is $\text{bin}(i) \in \{0, 1\}^*$ the binary representation (without leading zero's) of the number i . Eg. $\text{bin}(11) = 1011$ and $\text{mir}(\text{bin}(12)) = 0011$.

4. Give a one-state pda for the 'coin-change' language from the chapter:

$$L_{\text{cc}} = \{ x = y \mid x \in \{1, 2\}^*, y \in \{5\}^*, |x|_1 + 2 \cdot |x|_2 = 5 \cdot |y|_5 \}.$$

Pda and cfg.

5. pushdown automaton $\mathcal{A}$ is specified by

$\mathcal{A} = (\{q_0, q_1\}, \{a, b\}, \{Z, X\}, \delta, q_{\text{acc}}, Z, \emptyset)$, where δ contains the following transitions:
 $(q_0, a, Z) \mapsto (q_0, \lambda), \quad (q_0, a, Z) \mapsto (q_0, XZ_{\text{acc}}),$
 $(q_0, a, X) \mapsto (q_0, XX), \quad (q_0, b, X) \mapsto (q_1, \lambda),$
 $(q_1, b, X) \mapsto (q_1, \lambda), \quad (q_1, a, Z) \mapsto (q_0, Z).$

Determine a (reduced) context-free grammar G for the empty stack language of $\mathcal{A}$, i.e., $L(G) = L_{\text{e}}(\mathcal{A})$.

Pushdown Automata Exercises Solutions

Jha, Manish Kumar



Pushdown Automata Exercises Solutions:

Automata Theory – A Step-by-Step Approach (Lab/Practice Work with Solution) Jha, Manish Kumar, Presents the essentials of Automata Theory in an easy to follow manner Includes intuitive explanations of theoretical concepts definitions algorithms steps and techniques of Automata Theory Examines in detail the foundations of Automata Theory such as Language DFA NFA CFG Mealy Moore Machines Pushdown Automata Turing Machine Recursive Function Lab Practice Work etc More than 700 solved questions and about 200 unsolved questions for student s practice Apart from the syllabus of B Tech CSE IT M Tech CSE IT MCA M Sc CS BCA this book covers complete syllabi of GATE CS NET and DRDO examinations

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

Automata and Computability Dexter C. Kozen, 2013-11-11 These are my lecture notes from CS381 481 Automata and Computability Theory a one semester senior level course I have taught at Cornell University for many years I took this course myself in the fall of 1974 as a first year Ph D student at Cornell from Juris Hartmanis and have been in love with the subject ever since The course is required for computer science majors at Cornell It exists in two forms CS481 an honors version and CS381 a somewhat gentler paced version The syllabus is roughly the same but CS481 goes deeper into the subject covers more material and is taught at a more abstract level Students are encouraged to start off in one or the other then switch within the first few weeks if they find the other version more suitable to their level of mathematical skill The purpose of the course is twofold to introduce computer science students to the rich heritage of models and abstractions that have arisen over the years and to develop the capacity to form abstractions of their own and reason in terms of them

Introduction to the Theory of Computation Mr. Rohit Manglik, 2024-07-05

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200 Problems on

Languages, Automata, and Computation Filip Murlak, Damian Niwiński, Wojciech Rytter, 2023-04-20 This book presents a series of compelling exercises of increasing difficulty in formal languages automata and computation key topics in theoretical computer science Comprehensive solutions are provided for all problems making it a perfect resource for self study as well as a source of examples and problems for instructors

Rewriting and Typed Lambda Calculi Gilles Dowek, 2014-07-01 This book constitutes the refereed proceedings of the Joint 25th International Conference on Rewriting Techniques and

Applications RTA 2014 and 12th International Conference on Typed Lambda Calculi and Applications TLCA 2014 held as part of the Vienna Summer of Logic VSL 2014 in Vienna Austria in July 2014 The 28 revised full papers and 3 short papers presented were carefully reviewed and selected from 87 submissions The papers provide research results on all aspects of rewriting and typed lambda calculi ranging from theoretical and methodological issues to applications in various contexts They address a wide variety of topics such as algorithmic aspects implementation logic types semantics and programming

An Introduction to Formal Languages and Automata Peter Linz, 2006 Data Structures Theory of Computation

Theory of Computation K.R. Chowdhary, 2025-03-19 This book offers a fresh perspective on the study and teaching of the Theory of Computation The author's selection of topics and the comprehensive set of questions demonstrate extensive knowledge and years of experience in both teaching and research It addresses practical aspects of computing models that are often overlooked The book's emphasis on pedagogy through carefully crafted exercises and clear elucidation of learning outcomes and chapter summaries is a refreshing approach to the subject With the right platform this book has the potential to be adopted as a textbook in universities worldwide The book covers new developments not typically addressed in other texts on the subject such as algebraic theory new applications of finite automata and regular languages and topics from compiler theory that are closely related It also explores several new relationships among models with a natural progression of chapters Key strengths of this book include its coverage of contemporary and relevant topics practical applications of theoretical concepts an extended Chomsky Hierarchy and discussions on decidability undecidability and unsolvability The book is tailored for its intended audience with selected chapters suitable for undergraduate B Tech B E computer science students Additionally Chapters 9-14 can be used for a course on Advanced Topics in Theory of Computer Science at the Master's level M E M Tech It also serves as a foundational resource for those engaged in research in computer science

Theory of Computation Lucien Sina, 2025-09-30 Theory of Computation Clear Concise and Practical This book guides you step by step through the fundamentals of formal languages and computability from finite automata to pushdown automata and context free grammars all the way to the powerful Turing machine You will not only learn about the formal models but also understand the proof techniques used to establish properties of languages and above all where the limits of computability lie With numerous examples illustrative graphics clear proofs and exercises with sample solutions this book is ideal for students instructors and anyone who wants to systematically dive into the subject Key concepts such as the Pumping Lemma Myhill Nerode theorem Kleene's theorem diagonalization and Rice's theorem are presented in an accessible way and discussed with respect to their implications Special emphasis is placed on clarity and practicality chapters are modular proofs are fully detailed and wherever technicalities might be distracting intuition is highlighted A wealth of exercises and their solutions encourages active understanding perfect as a companion to lectures or for self study Whether you are seeking foundational knowledge for advanced courses e.g complexity theory or want to build solid mathematical skills in computation

theory this book provides a well structured readable introduction to one of the central areas of theoretical computer science

Elements of Computation Theory Arindama Singh,2009-04-30 The foundation of computer science is built upon the following questions What is an algorithm What can be computed and what cannot be computed What does it mean for a function to be computable How does computational power depend upon programming constructs Which algorithms can be considered feasible For more than 70 years computer scientists are searching for answers to such questions Their ingenious techniques used in answering these questions form the theory of computation Theory of computation deals with the most fundamental ideas of computer science in an abstract but easily understood form The notions and techniques employed are widely spread across various topics and are found in almost every branch of computer science It has thus become more than a necessity to revisit the foundation learn the techniques and apply them with confidence Overview and Goals This book is about this solid beautiful and pervasive foundation of computer science It introduces the fundamental notions models techniques and results that form the basic paradigms of computing It gives an introduction to the concepts and mathematics that computer scientists of our day use to model to argue about and to predict the behavior of algorithms and computation The topics chosen here have shown remarkable persistence over the years and are very much in current use Discrete Mathematics with Applications William Barnier,Jean B. Chan,1989 Designed to provide a strong mathematics background for computer science engineering and mathematics students Topics in the text are drawn from logic Boolean algebra combinatorics automata and graph theory A chapter on automata theory and formal languages is included along with programming notes using Pascal language constructions to show how programming and mathematics are related Logic is introduced briefly in chapter one and then expanded upon in chapter four *Theory of Automata, Formal Languages and Computation* S. P. Eugene Xavier,2005 This Book Is Aimed At Providing An Introduction To The Basic Models Of Computability To The Undergraduate Students This Book Is Devoted To Finite Automata And Their Properties Pushdown Automata Provides A Class Of Models And Enables The Analysis Of Context Free Languages Turing Machines Have Been Introduced And The Book Discusses Computability And Decidability A Number Of Problems With Solutions Have Been Provided For Each Chapter A Lot Of Exercises Have Been Given With Hints Answers To Most Of These Tutorial Problems

Automata and Computability Ganesh Gopalakrishnan,2019-03-04 Automata and Computability is a class tested textbook which provides a comprehensive and accessible introduction to the theory of automata and computation The author uses illustrations engaging examples and historical remarks to make the material interesting and relevant for students It incorporates modern handy ideas such as derivative based parsing and a Lambda reducer showing the universality of Lambda calculus The book also shows how to sculpt automata by making the regular language conversion pipeline available through a simple command interface A Jupyter notebook will accompany the book to feature code YouTube videos and other supplements to assist instructors and students Features Uses illustrations engaging examples and historical remarks to make

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Elements of Automata Theory, *A First Course in Formal Language Theory* V. J.

Rayward-Smith, 1995 **Theoretical Foundations of Computer Science** Dino Mandrioli, Carlo Ghezzi, 1987-05-15

Explores basic concepts of theoretical computer science and shows how they apply to current programming practice Coverage ranges from classical topics such as formal languages automata and compatibility to formal semantics models for concurrent computation and program semantics

An Introduction to Kolmogorov Complexity and Its Applications

Ming Li, Paul Vitanyi, 2013-04-18 With this book the authors are trying to present in a unified treatment an introduction to the central ideas and their applications of the Kolmogorov Complexity the theory dealing with the quantity of information in individual objects This book is appropriate for either a one or two semester introductory course in departments of computer science mathematics physics probability theory and statistics artificial intelligence and philosophy Although the mathematical theory of Kolmogorov complexity contains sophisticated mathematics the amount of math one needs to know to apply the notions in widely divergent areas is very little The authors purpose is to develop the theory in detail and outline a wide range of illustrative applications This book is an attempt to grasp the mass of fragmented knowledge of this fascinating theory Chapter 1 is a compilation of material on the diverse notations and disciplines we draw upon in order to make the book self contained The mathematical theory of Kolmogorov complexity is treated in chapters 2-4 the applications are treated in chapters 4-8

Theory and Applications of Satisfiability Testing - SAT 2014 Carsten Sinz, Uwe Egly, 2014-07-02

This book constitutes the refereed proceedings of the 17th International Conference on Theory and Applications of Satisfiability Testing SAT 2014 held as part of the Vienna Summer of Logic VSL 2014 in Vienna Austria in July 2014 The 21 regular papers 7 short papers and 4 tool papers presented together with 2 invited talks were carefully reviewed and selected from 78 submissions The papers have been organized in the following topical sections maximum satisfiability minimal unsatisfiability complexity and reductions proof complexity parallel and incremental Q SAT applications structure simplification and solving and analysis

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 Chomsky hierarchy Deterministic context free languages Closure properties of families of languages Computational complexity theory

Intractable problems Highlights of other important language classes Computability, Complexity, Logic E.

Börger, 1989-07-01 The theme of this book is formed by a pair of concepts the concept of formal language as carrier of the precise expression of meaning facts and problems and the concept of algorithm or calculus i.e. a formally operating procedure for the solution of precisely described questions and problems The book is a unified introduction to the modern theory of these concepts to the way in which they developed first in mathematical logic and computability theory and later in automata theory and to the theory of formal languages and complexity theory Apart from considering the fundamental themes and classical aspects of these areas the subject matter has been selected to give priority throughout to the new aspects of traditional questions results and methods which have developed from the needs or knowledge of computer science and particularly of complexity theory It is both a textbook for introductory courses in the above mentioned disciplines as well as a monograph in which further results of new research are systematically presented and where an attempt is made to make explicit the connections and analogies between a variety of concepts and constructions

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