

Set Theory For Computing From Decision Procedures To Logic Programming With Sets

Set Theory For Computing From Decision Procedures To Logic Programming With Sets Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Set Theory For Computing From Decision Procedures To Logic Programming With Sets**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

The Life and Work of Leon Henkin María Manzano 2014-10-23 This is a comprehensive book on the life and works of Leon Henkin (1921-2006), an extraordinary scientist and excellent teacher whose writings became influential right from the beginning of his career with his doctoral thesis on “The completeness of formal systems” under the direction of Alonzo Church. Upon the invitation of Alfred Tarski, Henkin joined the Group in Logic and the Methodology of Science in the Department of Mathematics at the University of California Berkeley in 1953. He stayed with the group until his retirement in 1991. This edited volume includes both foundational material and a logic perspective. Algebraic logic, model theory, type theory, completeness theorems, philosophical and foundational studies are among the topics covered, as well as mathematical education. The work discusses Henkin’s intellectual development, his relation to his predecessors and contemporaries and his impact on the recent development of mathematical logic. It offers a valuable reference work for researchers and students in the fields of philosophy, mathematics and computer science.

Theory and Applications of Relational Structures as Knowledge

Instruments Harrie de Swart 2004-01-30 Relational structures abound in

our daily environment: relational databases, data mining, scaling procedures, preference relations, etc. As the documentation of scientific results achieved within the European COST Action 274, TARSKI, this book advances the understanding of relational structures and the use of relational methods in various application fields. The 12 revised full papers were carefully reviewed and selected for presentations. The papers are devoted to mechanization of relational reasoning, relational scaling and preferences, and algebraic and logical foundations of real world relations.

Mathematical Foundations of Computer Science Peter A Fejer 1990-12-05

Set Theory for Computing Domenico Cantone 2013-06-29 An up-to-date and comprehensive account of set-oriented symbolic manipulation and automated reasoning methods. This book is of interest to graduates and researchers in theoretical computer science and computational logic and automated reasoning.

[Algorithms for Constructing Computably Enumerable Sets](#) Kenneth J.

Supowit 2023-05-23 Logicians have developed beautiful algorithmic techniques for the construction of computably enumerable sets. This textbook presents these techniques in a unified way that should appeal to

computer scientists. Specifically, the book explains, organizes, and compares various algorithmic techniques used in computability theory (which was formerly called "classical recursion theory"). This area of study has produced some of the most beautiful and subtle algorithms ever developed for any problems. These algorithms are little-known outside of a niche within the mathematical logic community. By presenting them in a style familiar to computer scientists, the intent is to greatly broaden their influence and appeal. Topics and features:

- All other books in this field focus on the mathematical results, rather than on the algorithms.
- There are many exercises here, most of which relate to details of the algorithms.
- The proofs involving priority trees are written here in greater detail, and with more intuition, than can be found elsewhere in the literature.
- The algorithms are presented in a pseudocode very similar to that used in textbooks (such as that by Cormen, Leiserson, Rivest, and Stein) on concrete algorithms.
- In addition to their aesthetic value, the algorithmic ideas developed for these abstract problems might find applications in more practical areas.

Graduate students in computer science or in mathematical logic constitute the primary audience. Furthermore, when the author taught a one-semester graduate course based on this material, a number of advanced undergraduates, majoring in computer science or mathematics or both, took the course and flourished in it. Kenneth J. Supowit is an Associate Professor Emeritus, Department of Computer Science & Engineering, Ohio State University, Columbus, Ohio, US.

A 25-Year Perspective on Logic Programming Agostino Dovier
2010-06-30 This book celebrates the 25th anniversary of GULP—the Italian Association for Logic Programming. Authored by Italian researchers at the leading edge of their fields, it presents an up-to-date survey of a broad collection of topics in logic programming, making it a useful reference for both researchers and students. During its 25-year existence, GULP has organised a wide range of national and international activities, including both conferences and summer schools. It has been especially active in supporting and encouraging young researchers, by providing scholarships for GULP events and awarding distinguished

disser- tions.

WeintheinternationallogicprogrammingcommunitylookuponGULPwith a combination of envy, admiration and gratitude. We are pleased to attend its conferences and summer schools, where we can learn about scienti?c advances, catch up with old friends and meet young students. It is an honour for me to acknowledge our appreciation to GULP for its outstanding contributions to our ?eld and to express our best wishes for its continuing prosperity in the future. March 2010 Robert Kowalski Imperial College London Preface On June 18, 1985, a group of pioneering researchers, including representatives from industry, national research labs, and academia, attended the constituent assembly of the Group of researchers and Users of Logic Programming (GULP) association. That was the starting point of a long adventure in science, that 1 we are still experiencing 25 years later. This volume celebrates this important event.

On Sets and Graphs Eugenio G. Omodeo 2017-05-11 This treatise presents an integrated perspective on the interplay of set theory and graph theory, providing an extensive selection of examples that highlight how methods from one theory can be used to better solve problems originated in the other. Features: explores the interrelationships between sets and graphs and their applications to finite combinatorics; introduces the fundamental graph-theoretical notions from the standpoint of both set theory and dyadic logic, and presents a discussion on set universes; explains how sets can conveniently model graphs, discussing set graphs and set-theoretic representations of claw-free graphs; investigates when it is convenient to represent sets by graphs, covering counting and encoding problems, the random generation of sets, and the analysis of infinite sets; presents excerpts of formal proofs concerning graphs, whose correctness was verified by means of an automated proof-assistant; contains numerous exercises, examples, definitions, problems and insight panels.

Computer Aided Verification Swarat Chaudhuri 2016-07-12 The two-volume set LNCS 9779 and LNCS 9780 constitutes the refereed proceedings of the 28th International Conference on Computer Aided Verification, CAV 2016, held in Toronto, ON, USA, in July 2016. The total

of 46 full and 12 short papers presented in the proceedings was carefully reviewed and selected from 195 submissions. The papers were organized in topical sections named: probabilistic systems; synthesis; constraint solving; model checking; program analysis; timed and hybrid systems; verification in practice; concurrency; and automata and games.

The Calculus of Computation Aaron R. Bradley 2007-09-18 Written with graduate and advanced undergraduate students in mind, this textbook introduces computational logic from the foundations of first-order logic to state-of-the-art decision procedures for arithmetic, data structures, and combination theories. The textbook also presents a logical approach to engineering correct software. Verification exercises are given to develop the reader's facility in specifying and verifying software using logic. The treatment of verification concludes with an introduction to the static analysis of software, an important component of modern verification systems. The final chapter outlines courses of further study.

Relational and Kleene-Algebraic Methods in Computer Science R. Berghammer 2004-06-01 This book constitutes the thoroughly refereed joint postproceedings of the 7th International Seminar on Relational Methods in Computer Science and the 2nd International Workshop on Applications of Kleene Algebra held in Bad Malente, Germany in May 2003. The 21 revised full papers presented were carefully selected during two rounds of reviewing and improvement. The papers address foundational and methodological aspects of the calculi of relations and Kleene algebra as well as applications of such methods in various areas of computer science and information processing.

Mathematical Reviews 2006

GABCOM & GABMET Gmelin Institut 1993-07-02 The scientific literature in chemistry and physics abounds with abbreviations of chemical compounds, physical methods and mathematical procedures.

Unfortunately, many authors take it for granted that the reader knows the meaning of an abbreviation, something quite trivial for a specialist. For the less informed reader, these abbreviations thus present definite communication problems. The Gmelin Institute of Inorganic Chemistry of

the Max Planck Society has collected more than 4000 abbreviations for methods and terms from chemistry, physics and mathematics and more than 4000 chemical compounds (mostly ligands in coordination chemistry and standard reagents for physical and analytical methods). GABCOM and GABMET provide an overview enabling readers and authors to check the definition of an abbreviation used by an author and to see whether this abbreviation is already being used for other purposes. GABCOM and GABMET are also in preparation in electronic form (data file and search software) for IBM-PC or compatible computers.

Relational Methods in Computer Science Harrie C.M. de Swart 2003-07-01 This book constitutes the thoroughly refereed joint post-proceedings of the 6th International Conference on Relational Methods in Computer Science, RelMICS 2001 and the 1st Workshop of COST Action 274 TARSKI, Theory and Application of Relational Structures as Knowledge Instruments held in Oisterwijk, The Netherlands, in October 2001. The 20 revised full papers presented together with an invited paper were carefully reviewed and selected. The papers are organized in topical sections on algebraic and logical foundations of real world relations, mechanization of relational reasoning, and relational scaling and preferences.

Database Theory - ICDT '95 Georg Gottlob 1995-01-03 This volume presents the proceedings of the 1995 International Conference on Database Theory, ICDT '95, held in Prague in January 1995. Besides two full invited papers and the abstracts of two tutorials, the book includes the revised full versions of 29 technical contributions selected from a total of 116 submissions. The papers address all current aspects of database theory; they are organized in sections on optimization, nonmonotonic semantics, query languages, concurrency control, advanced models, probabilistic methods, constraints and dependencies, and Datalog analysis.

Nonlinear Labor Market Dynamics Michael Neugart 2000-05-06 Nonlinear Labor Market Dynamics discusses adjustment processes in labor markets. Contrary to linear-stochastic approaches this book is based on a non-linear deterministic framework. It is shown that even

textbook-like-models of the labor market can generate long lasting adjustment processes, local instabilities, and chaotic movements, once nonlinear relationships and widely accepted adjustment rules are introduced. Thus, labor market dynamics may have an endogenous component that is governed by a nonlinear deterministic core. Of course, all results are tied to the particular models discussed in this book. Nevertheless, these models imply that by incorporating nonlinear relationships, one may arrive at an explanation of labor market behavior where linear stochastic approaches fell. Time series studies for German labor market data support this point of view.

Decision Procedures Daniel Kroening 2016-11-22 A decision procedure is an algorithm that, given a decision problem, terminates with a correct yes/no answer. Here, the authors focus on theories that are expressive enough to model real problems, but are still decidable. Specifically, the book concentrates on decision procedures for first-order theories that are commonly used in automated verification and reasoning, theorem-proving, compiler optimization and operations research. The techniques described in the book draw from fields such as graph theory and logic, and are routinely used in industry. The authors introduce the basic terminology of satisfiability modulo theories and then, in separate chapters, study decision procedures for each of the following theories: propositional logic; equalities and uninterpreted functions; linear arithmetic; bit vectors; arrays; pointer logic; and quantified formulas.

Web Reasoning and Rule Systems Balder ten Cate 2015-07-21 This book constitutes the refereed proceedings of the 9th International Conference on Web Reasoning and Rule Systems, RR 2015, held in Berlin, Germany, in August 2015. The 5 full papers, 4 technical communications presented together with 4 invited talks were carefully reviewed and selected from 16 submissions. The scale and the heterogenous nature of web data poses many challenges, and turns basic tasks such as query answering and data transformations into complex reasoning problems. Rule-based systems have found many applications in this area. The RR conference welcomes original research from all areas of Web Reasoning and Rule Systems. Topics of particular interest are: answer set programming,

complex events, datalog, description logics, event-condition-action rules, information extraction, and logic programming.

Extensions of Logic Programming Evelina Lamma 1993-02-12 This book contains papers which investigate how to extend logic programming toward the artificial intelligence and software engineering areas, covering both theoretical and practical aspects. Some papers investigate topics such as abductive reasoning and negation. Some works discuss how to enhance the expressive power of logic programming by introducing constraints, sets, and integration with functional programming. Other papers deal with the structuring of knowledge into modules, taxonomies, and objects, with the aim of extending logic programming toward software engineering applications. A section is devoted to papers concentrating on proof theory and inspired by Gentzen-style sequent or natural deduction systems. Topics such as concurrency are considered to enhance the expressive power of logic languages. Finally, some papers mainly concern implementation techniques for some of these logic programming extensions.

Logic and Set Theory Philip M. Cheifetz 1986

Design and Implementation of Symbolic Computation Systems Alfonso Miola 1993-09-02 This volume constitutes the proceedings of the International Symposium on Design and Implementation of Symbolic Computation Systems (DISCO '93), held in Gmunden, Austria, in September 1993. The growing importance of systems for symbolic computation has greatly influenced the decision of organizing this third conference in the series: DISCO '93 focuses mainly on the most innovative methodological and technological aspects of the design and implementation of hardware and software systems for symbolic and algebraic computation, automated reasoning, geometric modeling and computation, and automatic programming. The general objective of DISCO '93 is to present an up-to-date view of the field and to serve as a forum in symbolic computation for the scientific exchange among academic, industrial and user communities. Besides invited talks by Buchberger, Monagan, Omodeo and Hong, the volume contains 28 contributions, carefully selected by a highly competent international

program committee from a total of 56 submissions.

Set Theory and Logic Robert R. Stoll 2012-05-23 Explores sets and relations, the natural number sequence and its generalization, extension of natural numbers to real numbers, logic, informal axiomatic mathematics, Boolean algebras, informal axiomatic set theory, several algebraic theories, and 1st-order theories.

From Linear Operators to Computational Biology Martin Davis 2012-07-28 In his rich and varied career as a mathematician, computer scientist, and educator, Jacob T. Schwartz wrote seminal works in analysis, mathematical economics, programming languages, algorithmics, and computational geometry. In this volume of essays, his friends, students, and collaborators at the Courant Institute of Mathematical Sciences present recent results in some of the fields that Schwartz explored: quantum theory, the theory and practice of programming, program correctness and decision procedures, dextrous manipulation in Robotics, motion planning, and genomics. In addition to presenting recent results in these fields, these essays illuminate the astonishingly productive trajectory of a brilliant and original scientist and thinker.

The Calculus of Computation Aaron R. Bradley 2007-09-03 Written with graduate and advanced undergraduate students in mind, this textbook introduces computational logic from the foundations of first-order logic to state-of-the-art decision procedures for arithmetic, data structures, and combination theories. The textbook also presents a logical approach to engineering correct software. Verification exercises are given to develop the reader's facility in specifying and verifying software using logic. The treatment of verification concludes with an introduction to the static analysis of software, an important component of modern verification systems. The final chapter outlines courses of further study.

Logic for Computer Scientists Uwe Schöning 2009-11-03 This book introduces the notions and methods of formal logic from a computer science standpoint, covering propositional logic, predicate logic, and foundations of logic programming. The classic text is replete with illustrative examples and exercises. It presents applications and themes

of computer science research such as resolution, automated deduction, and logic programming in a rigorous but readable way. The style and scope of the work, rounded out by the inclusion of exercises, make this an excellent textbook for an advanced undergraduate course in logic for computer scientists.

Mathematical Foundations of Computer Science Peter A. Fejer 2012-12-06 Mathematical Foundations of Computer Science, Volume I is the first of two volumes presenting topics from mathematics (mostly discrete mathematics) which have proven relevant and useful to computer science. This volume treats basic topics, mostly of a set-theoretical nature (sets, functions and relations, partially ordered sets, induction, enumerability, and diagonalization) and illustrates the usefulness of mathematical ideas by presenting applications to computer science. Readers will find useful applications in algorithms, databases, semantics of programming languages, formal languages, theory of computation, and program verification. The material is treated in a straightforward, systematic, and rigorous manner. The volume is organized by mathematical area, making the material easily accessible to the upper-undergraduate students in mathematics as well as in computer science and each chapter contains a large number of exercises. The volume can be used as a textbook, but it will also be useful to researchers and professionals who want a thorough presentation of the mathematical tools they need in a single source. In addition, the book can be used effectively as supplementary reading material in computer science courses, particularly those courses which involve the semantics of programming languages, formal languages and automata, and logic programming.

Logic Programming Joxan Jaffar 1998 Includes tutorials, lectures, and refereed papers on all aspects of logic programming, The Joint International Conference and Symposium on Logic Programming, sponsored by the Association for Logic Programming, includes tutorials, lectures, and refereed papers on all aspects of logic programming, including theoretical foundations, constraints, concurrency and parallelism, deductive databases, language design and implementation,

nonmonotonic reasoning, and logic programming and the Internet.

Foundations of Software Science and Computation Structures

Wolfgang Thomas 1999-03-10 This book constitutes the refereed proceedings of the Second International Conference on Foundations of Software Science and Computation Structures, FOSSACS '99, held in Amsterdam, The Netherlands in March 1999 as part of ETAPS'99. The 18 revised full papers presented were carefully selected from a total of 40 submissions. Also included are three invited papers. The central issues of the papers are theories and methods which support the specification, transformation, verification and analysis of programs and software systems.

Computer Science Logic Egon Börger 1991-09-11 The workshop Computer Science Logic '90 was held at the Max-Planck-Haus in Heidelberg, Germany, October 1-5, 1990. It was the fourth in a series of workshops, following CSL '89 at the University of Kaiserslautern (see LNCS 440), CSL '88 at the University of Duisberg (see LNCS 385), and CSL '87 at the University of Karlsruhe (see LNCS 329). This volume contains 24 papers, chosen by means of a review procedure from the 35 papers presented at the workshop, some of which were invited and some selected from a total of 89 submissions. The papers cover a wide range of topics arising from the applications of logic to computer science.

Ewa Orłowska on Relational Methods in Logic and Computer

Science Joanna Golińska-Pilarek 2018-12-08 This book is a tribute to Professor Ewa Orłowska, a Polish logician who was celebrating the 60th year of her scientific career in 2017. It offers a collection of contributed papers by different authors and covers the most important areas of her research. Prof. Orłowska made significant contributions to many fields of logic, such as proof theory, algebraic methods in logic and knowledge representation, and her work has been published in 3 monographs and over 100 articles in internationally acclaimed journals and conference proceedings. The book also includes Prof. Orłowska's autobiography, bibliography and a dialogue between her and the editors of the volume, as well as contributors' biographical notes, and is suitable for scholars and students of logic who are interested in understanding more about

Prof. Orłowska's work.

Structure And Randomness In Computability And Set Theory Douglas

Center 2020-10-02 This volume presents some exciting new developments occurring on the interface between set theory and computability as well as their applications in algebra, analysis and topology. These include effective versions of Borel equivalence, Borel reducibility and Borel determinacy. It also covers algorithmic randomness and dimension, Ramsey sets and Ramsey spaces. Many of these topics are being discussed in the NSF-supported annual Southeastern Logic Symposium.

Forthcoming Books Rose Arny 2001-08

Fuzzy Logic and Soft Computing Guoqing Chen 2012-12-06 Fuzzy Logic and Soft Computing contains contributions from world-leading experts from both the academic and industrial communities. The first part of the volume consists of invited papers by international authors describing possibilistic logic in decision analysis, fuzzy dynamic programming in optimization, linguistic modifiers for word computation, and theoretical treatments and applications of fuzzy reasoning. The second part is composed of eleven contributions from Chinese authors focusing on some of the key issues in the fields: stable adaptive fuzzy control systems, partial evaluations and fuzzy reasoning, fuzzy wavelet neural networks, analysis and applications of genetic algorithms, partial repeatability, rough set reduction for data enriching, limits of agents in process calculus, medium logic and its evolution, and factor spaces canes. These contributions are not only theoretically sound and well-formulated, but are also coupled with applicability implications and/or implementation treatments. The domains of applications realized or implied are: decision analysis, word computation, databases and knowledge discovery, power systems, control systems, and multi-destinational routing. Furthermore, the articles contain materials that are an outgrowth of recently conducted research, addressing fundamental and important issues of fuzzy logic and soft computing.

Automated Reasoning Nicola Olivetti 2016-06-13 This book constitutes the refereed proceedings of the 8th International Joint Conference on

Automated Reasoning, IJCAR 2016, held in Coimbra, Portugal, in June/July 2016. IJCAR 2014 was a merger of three leading events in automated reasoning, namely CADE (International Conference on Automated Deduction), FroCoS (International Symposium on Frontiers of Combining Systems) and TABLEAUX (International Conference on Automated Reasoning with Analytic Tableaux and Related Methods). The 26 revised full research papers and 9 system descriptions presented together with 4 invited talks were carefully reviewed and selected from 79 submissions. The papers have been organized in topical sections on satisfiability of Boolean formulas, satisfiability modulo theory, rewriting, arithmetic reasoning and mechanizing mathematics, first-order logic and proof theory, first-order theorem proving, higher-order theorem proving, modal and temporal logics, non-classical logics, and verification.

Frontiers of Combining Systems Helene Kirchner 2006-12-30 This book constitutes the refereed proceedings of the Third International Workshop on Frontiers of Combining Systems, FroCoS 2000, held in Nancy, France, in March 2000. The 14 revised full papers presented together with four invited papers were carefully reviewed and selected from a total of 31 submissions. Among the topics covered are constraint processing, interval narrowing, rewriting systems, proof planning, sequent calculus, type systems, model checking, theorem proving, declarative programming, logic programming, and equational theories.

Computable Set Theory Domenico Cantone 1989 The authors describe computational techniques for deciding formulae in set theory. The eventual aim of such a work is to automate simple proofs over a wide range of mathematical areas. This volume reports on a successful series of investigations in one of the most important sub-domains: elementary set theory.

Martin Davis on Computability, Computational Logic, and

Mathematical Foundations Eugenio G. Omodeo 2017-01-27 This book presents a set of historical recollections on the work of Martin Davis and his role in advancing our understanding of the connections between logic, computing, and unsolvability. The individual contributions touch on most of the core aspects of Davis' work and set it in a contemporary

context. They analyse, discuss and develop many of the ideas and concepts that Davis put forward, including such issues as contemporary satisfiability solvers, essential unification, quantum computing and generalisations of Hilbert's tenth problem. The book starts out with a scientific autobiography by Davis, and ends with his responses to comments included in the contributions. In addition, it includes two previously unpublished original historical papers in which Davis and Putnam investigate the decidable and the undecidable side of Logic, as well as a full bibliography of Davis' work. As a whole, this book shows how Davis' scientific work lies at the intersection of computability, theoretical computer science, foundations of mathematics, and philosophy, and draws its unifying vision from his deep involvement in Logic.

Logical Foundations of Computer Science Sergei Artemov 2017-12-22 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science, LFCS 2018, held in Deerfield Beach, FL, USA, in January 2018. The 22 revised full papers were carefully reviewed and selected from 22 submissions. The scope of the Symposium is broad and includes constructive mathematics and type theory; homotopy type theory; logic, automata, and automatic structures; computability and randomness; logical foundations of programming; logical aspects of computational complexity; parameterized complexity; logic programming and constraints; automated deduction and interactive theorem proving; logical methods in protocol and program verification; logical methods in program specification and extraction; domain theory logics; logical foundations of database theory; equational logic and term rewriting; lambda and combinatory calculi; categorical logic and topological semantics; linear logic; epistemic and temporal logics; intelligent and multiple-agent system logics; logics of proof and justification; non-monotonic reasoning; logic in game theory and social software; logic of hybrid systems; distributed system logics; mathematical fuzzy logic; system design logics; and other logics in computer science.

Reasoning, Action and Interaction in AI Theories and Systems Oliviero

Stock 2006-09-21 The present book is a festschrift in honor of Luigia Carlucci Aiello. The 18 articles included are written by former students, friends, and international colleagues, who have cooperated with Luigia Carlucci Aiello, scientifically or in AI boards or committees. The contributions by reputed researchers span a wide range of AI topics and reflect the breadth and depth of Aiello's own work.

Constraints in Computational Logics: Theory and Applications

Hubert Comon 2003-08-06 Constraints provide a declarative way of representing infinite sets of data. They are well suited for combining different logical or programming paradigms as has been known for constraint logic programming since the 1980s and more recently for functional programming. The use of constraints in automated deduction is more recent and has proved to be very successful, moving the control from the meta-level to the constraints, which are now first-class objects. This monograph-like book presents six thoroughly reviewed and revised lectures given by leading researchers at the summer school organized by the ESPRIT CCL Working Group in Gif-sur-Yvette, France, in September 1999. The book offers coherently written chapters on constraints and constraint solving, constraint solving on terms, combining constraint solving, constraints and theorem proving, functional and constraint logic programming, and building industrial applications.

An Introduction to the Technique of Formative Processes in Set Theory

Domenico Cantone 2018-02-15 This book presents an intuitive picture-oriented approach to the formative processes technique and to its applications. In the first part the authors introduce basic set-theoretic terminology and properties, the decision problem in set theory, and formative processes. The second part of the book is devoted to applications of the technique of formative processes to decision problems. All chapters contain exercises and the book is appropriate for researchers and graduate students in the area of computer science logic.

Set Theory For Computing From Decision Procedures To Logic

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