

1.4 How Prolog answers questions

- To answer a question, Prolog tries to satisfy **all the goals**.
- **To satisfy a goal** means to demonstrate that the goal is **true**, assuming that the relations in the program is true.
- Prolog accepts facts and rules as a set of **axioms**(公理), and the user's question as a conjectured (推測的) **theorem**(定理).
- Example:
 - Axioms: All men are fallible (會犯錯的).
Socrates is a man.
 - Theorem: Socrates is fallible.
 - For all X, if X is a man then X is fallible.
fallible(X) :- man(X).
man(socrates).
 - ?- fallible(socrates).

Prolog Programming Questions And Answers

Robert Kowalski, Kenneth A. Bowen



Prolog Programming Questions And Answers:

Programming for the Java Virtual Machine Joshua Engel,1999 The Java Virtual Machine JVM is the underlying technology behind Java s most distinctive features including size security and cross platform delivery This guide shows programmers how to write programs for the Java Virtual Machine *Foundations of Inductive Logic Programming* Shan-Hwei Nienhuys-Cheng,Ronald de Wolf,1997-04-18 The state of the art of the bioengineering aspects of the morphology of microorganisms and their relationship to process performance are described in this volume Materials and methods of the digital image analysis and mathematical modeling of hyphal elongation branching and pellet formation as well as their application to various fungi and actinomycetes during the production of antibiotics and enzymes are presented

Foundations of Programming Languages Kent D. Lee,2017-12-10 This clearly written textbook provides an accessible introduction to the three programming paradigms of object oriented imperative functional and logic programming Highly interactive in style the text encourages learning through practice offering test exercises for each topic covered Review questions and programming projects are also presented to help reinforce the concepts outside of the classroom This updated and revised new edition features new material on the Java implementation of the JCoCo virtual machine Topics and features includes review questions and solved practice exercises with supplementary code and support files available from an associated website presents an historical perspective on the models of computation used in implementing the programming languages used today provides the foundations for understanding how the syntax of a language is formally defined by a grammar illustrates how programs execute at the level of assembly language through the implementation of a stack based Python virtual machine called JCoCo and a Python disassembler introduces object oriented languages through examples in Java functional programming with Standard ML and programming using the logic language Prolog describes a case study involving the development of a compiler for the high level functional language Small a robust subset of Standard ML Undergraduate students of computer science will find this engaging textbook to be an invaluable guide to the skills and tools needed to become a better programmer While the text assumes some background in an imperative language and prior coverage of the basics of data structures the hands on approach and easy to follow writing style will enable the reader to quickly grasp the essentials of programming languages frameworks and architectures *Handbook of Logic in Artificial Intelligence and Logic Programming: Volume 5: Logic Programming* Dov M. Gabbay,C. J. Hogger,J. A. Robinson,1998-01-08 The Handbook of Logic in Artificial Intelligence and Logic Programming is a multi volume work covering all major areas of the application of logic to artificial intelligence and logic programming The authors are chosen on an international basis and are leaders in the fields covered Volume 5 is the last in this well regarded series Logic is now widely recognized as one of the foundational disciplines of computing It has found applications in virtually all aspects of the subject from software and hardware engineering to programming languages and artificial intelligence In response to the growing need for an in depth

survey of these applications the Handbook of Logic in Artificial Intelligence and its companion the Handbook of Logic in Computer Science have been created The Handbooks are a combination of authoritative exposition comprehensive survey and fundamental research exploring the underlying themes in the various areas Some mathematical background is assumed and much of the material will be of interest to logicians and mathematicians Volume 5 focuses particularly on logic programming The chapters which in many cases are of monograph length and scope emphasize possible unifying themes

PROLOG, Programming Techniques and Applications Susan Garavaglia,1987 *Programming Languages* Herbert G. Mayer,1987 **Technology Enhanced Learning** Jean-Pierre Courtiat,Costas Davarakis,Thierry Villemur,2006-03-02 Technology Enhanced Learning is an essential reference for both academic and professional researchers in the field of institutional and home education Technology Enhanced Learning TeL has provided tools and infrastructure to education and training disciplines for over a decade The papers presented in this volume cover research issues including pedagogical and evaluation theories integrated learning environments e learning experiments trials and overall results from actual TeL deployment This state of the art volume contains a compilation of select papers presented during the Technology Enhanced Learning TeL workshop co located with the World Computer Congress August 2004 in Toulouse France **Artificial Intelligence in Chemical Engineering** Thomas E. Quantrille,Y. A. Liu,2012-12-02 Artificial intelligence AI is the part of computer science concerned with designing intelligent computer systems systems that exhibit characteristics we associate with intelligence in human behavior This book is the first published textbook of AI in chemical engineering and provides broad and in depth coverage of AI programming AI principles expert systems and neural networks in chemical engineering This book introduces the computational means and methodologies that are used to enable computers to perform intelligent engineering tasks A key goal is to move beyond the principles of AI into its applications in chemical engineering After reading this book a chemical engineer will have a firm grounding in AI know what chemical engineering applications of AI exist today and understand the current challenges facing AI in engineering Allows the reader to learn AI quickly using inexpensive personal computers Contains a large number of illustrative examples simple exercises and complex practice problems and solutions Includes a computer diskette for an illustrated case study Demonstrates an expert system for separation synthesis EXSEP Presents a detailed review of published literature on expert systems and neural networks in chemical engineering Mini-micro Systems ,1984 **Unifying Theories of Programming** Charles Antony Richard Hoare,He Jifeng,1998 This book provides a synthesis of the theory of programming It aims to use mathematical theory of programming to provide a similar basis for specification design and implementation of programs It is wide ranging both in its subject matter and also in its approach and style The first five chapters justify and introduce the main concepts and methods to be used within the text relating the goal of unification to the achievements of other branches of science and mathematics The remaining chapters introduce more advanced programming language features one by one The main methods of programming are summarised

and concluded in a manner suitable for those already familiar with programming semantics Definitions are accompanied by examples and the theorems by meticulous proof **Knowledge-based Systems in Engineering** Clive L. Dym, Raymond E. Levitt, 1991 This book integrates the fundamentals of artificial intelligence AI approaches to knowledge representation with engineering examples Its unified treatment makes it an essential tool in this emerging new field Combining an informed approach to AI with engineering problem solving this book is suitable for an introductory course on AI expert systems which is specifically offered to engineers The text provides an in depth appreciation of the AI fundamentals underlying knowledge based systems and covers rule based frame based and object oriented representation with many engineering illustrations

Applied Logic Kaj Børge Hansen, 1996 **Visualization in Human-computer Interaction** Peter Gorny, Michael J. Tauber, 1990 This volume presents a selection of the contributions to the Seventh Workshop on Informatics and Psychology The theme of the workshop was Visualization in Human Computer Interaction Visualization is nowadays recognized as an important aspect of user oriented human computer interfaces Both informatics and psychology are concerned with this topic In informatics the technology is being developed which makes visualization and interaction based on visual concepts feasible Another important trend in informatics is the development of prototypical solutions Visual programming visual languages graphical interfaces visual representations and many other keywords characterize current efforts in this field Psychologists are working on the question of how people represent knowledge visually and how they can take advantage of visual representations when solving tasks PUBLISHER S WEBSITE Approaches to Regional Transport Problems, 1989 *The Power of Turbo Prolog* Ralph Roberts, 1987 **Advanced Research in Technologies, Information, Innovation and Sustainability** Teresa Guarda, Logic and Logic Programming Anil Nerode, 1987 InfoWorld, 1985-08-05 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects Electronic Products Magazine, 1984 **Logic Programming** Robert Kowalski, Kenneth A. Bowen, 1988 These two volumes collect papers presented at the first joint meeting of the two principal logic programming conferences held in August of 1988 The more than fifty contributions cover all aspects of the field including applications particularly those that exploit the unique character of logic programming the role of logic programming in artificial intelligence deductive databases relations to other computational paradigms language issues methodology implementations on sequential and parallel architectures and theory Logic Programming is included in the Logic Programming series Research Reports and Notes edited by Ehud Shapiro

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Table of Contents Prolog Programming Questions And Answers

1. Understanding the eBook Prolog Programming Questions And Answers
 - The Rise of Digital Reading Prolog Programming Questions And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Prolog Programming Questions And Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Prolog Programming Questions And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prolog Programming Questions And Answers

- Personalized Recommendations
 - Prolog Programming Questions And Answers User Reviews and Ratings
 - Prolog Programming Questions And Answers and Bestseller Lists
5. Accessing Prolog Programming Questions And Answers Free and Paid eBooks
 - Prolog Programming Questions And Answers Public Domain eBooks
 - Prolog Programming Questions And Answers eBook Subscription Services
 - Prolog Programming Questions And Answers Budget-Friendly Options
 6. Navigating Prolog Programming Questions And Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Prolog Programming Questions And Answers Compatibility with Devices
 - Prolog Programming Questions And Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prolog Programming Questions And Answers
 - Highlighting and Note-Taking Prolog Programming Questions And Answers
 - Interactive Elements Prolog Programming Questions And Answers
 8. Staying Engaged with Prolog Programming Questions And Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prolog Programming Questions And Answers
 9. Balancing eBooks and Physical Books Prolog Programming Questions And Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prolog Programming Questions And Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Prolog Programming Questions And Answers
 - Setting Reading Goals Prolog Programming Questions And Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Prolog Programming Questions And Answers

- Fact-Checking eBook Content of Prolog Programming Questions And Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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