1.4 How Prolog answers questions

predecessor(X, Z) :- parent(X, Z).   % Rule **pr1**
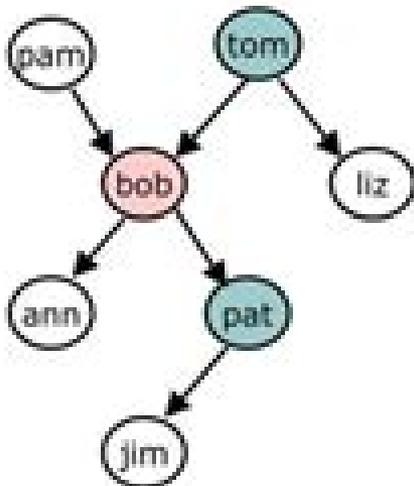predecessor(X, Z) :- parent(X, Y),   % Rule **pr2**
                                    predecessor(Y, Z).

parent(pam, bob).
parent(tom, bob).
parent(tom, liz).
parent(bob, ann).
parent(bob, pat).
parent(pat, jim).

- ?- predecessor(tom, pat).
  - Apply rule **pr2**, X = tom, Z = pat, but Y is not instantiated yet.
  - The top goal predecessor(tom, pat) is replaces by two goals:
    - parent(tom, Y)
    - predecessor(Y, pat)
  - The first goal matches one of the facts. (Y = bob)
  - The remaining goal has become
    predecessor(bob, pat)
  - Using rule **pr1**, this goal can be satisfied.
    - predecessor(bob, pat) :- parent(bob, pat)

Prolog Programming Questions And Answers

Lei Huang

Prolog Programming Questions And Answers:

   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   **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 *PROLOG, Programming Techniques and Applications* Susan Garavaglia,1987 **Programming Languages** Herbert G. Mayer,1987 **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 **Artificial Intelligence for Customer Relationship Management** Boris Galitsky,2020-12-07 This research monograph brings AI to the field of Customer Relationship Management CRM to make a customer experience with a product or service smart and enjoyable AI is here to help customers to get a refund for a canceled flight unfreeze a banking account or get a health test result Today CRM has evolved from storing and analyzing customers data to predicting and understanding their behavior by putting a CRM system in a customers shoes Hence advanced reasoning with learning from small data about customers attitudes introspection reading between the lines of customer communication and explainability need to come into play Artificial Intelligence for Customer Relationship Management leverages a number of Natural Language Processing NLP Machine Learning ML simulation and reasoning techniques to enable CRM with intelligence An effective and robust CRM needs to be able to chat with customers providing desired information completing their transactions and resolving their problems It introduces a systematic means of ascertaining a customers frame of mind their intents and attitudes to determine when to provide a thorough answer a recommendation an explanation a proper argument timely advice and promotion or compensation The author employs a spectrum of ML methods from deterministic to statistical to deep to predict customer behavior and anticipate possible complaints assuring customer retention efficiently Providing a forum for the exchange of ideas in AI this book provides a concise yet comprehensive coverage of methodologies tools issues applications and future trends for professionals managers

and researchers in the CRM field together with AI and IT professionals   **Handbook of Knowledge Representation** Frank van Harmelen,Vladimir Lifschitz,Bruce Porter,2008-01-08 Handbook of Knowledge Representation describes the essential foundations of Knowledge Representation which lies at the core of Artificial Intelligence AI The book provides an up to date review of twenty five key topics in knowledge representation written by the leaders of each field It includes a tutorial background and cutting edge developments as well as applications of Knowledge Representation in a variety of AI systems This handbook is organized into three parts Part I deals with general methods in Knowledge Representation and reasoning and covers such topics as classical logic in Knowledge Representation satisfiability solvers description logics constraint programming conceptual graphs nonmonotonic reasoning model based problem solving and Bayesian networks Part II focuses on classes of knowledge and specialized representations with chapters on temporal representation and reasoning spatial and physical reasoning reasoning about knowledge and belief temporal action logics and nonmonotonic causal logic Part III discusses Knowledge Representation in applications such as question answering the semantic web automated planning cognitive robotics multi agent systems and knowledge engineering This book is an essential resource for graduate students researchers and practitioners in knowledge representation and AI Make your computer smarter Handle qualitative and uncertain information Improve computational tractability to solve your problems easily   Knowledge-based Systems in Engineering Clive L. Dym,Raymond E. Levitt,1991 This book integrates the fundamentals of artifical 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   Approaches to Regional Transport Problems ,1989   *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   **Logic: Logic and computer science** H. C. M. de Swart,1993 In Logic Programming 25 and 26 the language of logic is used as a declarative programming language Prolog uses resolution as its underlying proof mechanism The logical structure of relational databases is explained 27 in set theoretical terms and it is shown how the language of set

theory can be used as a Structured Query Language SQL Computability Undecidability and Complexity are treated in sections 28 29 and 30 respectively in terms of Turing machines The undecidability of the validity problem for predicate logic and the NP completeness of the satisfiability problem for propositional logic are shown in a similiar way Chomsky s notion of grammar and its relation to the notion of automation is presented in section 31 Both untyped and typed lambda calculus are treated in sections 32 and 33 respectively The role epistemic logic can play in the description of distributed systems is explained 34 In section 35 and 36 temporal logic is used both for verification by hand and for automatic verification A tableaux based automated theorem prover for classical logic is elaborated in the Appendix Each section ends with a number of exercises the answers can be found at the end of this book   **Advanced Research in Technologies, Information, Innovation and Sustainability** Teresa Guarda,Filipe Portela,Maria Fernanda Augusto,Jairo R. Coronado-Hernández,2026-02-16 This three volume set constitutes the revised selected papers from the 5th International Conference on Advanced Research in Technologies Information Innovation and Sustainability 2025 ARTIIS 2025 held in Cartagena de Indias Colombia during October 21 23 2025 The 91 full papers and 10 short papers included in these proceedings were carefully reviewed and selected from 266 submissions These papers were categorized under the following topical sections Part I Computing Solutions Part II Data Intelligence Part III Sustainability Ethics Security and Privacy
     The Power of Turbo Prolog Ralph Roberts,1987   Expert Systems and Artificial Intelligence Nathan Goldenthal,1987
     Handbook of VLSI Chip Design and Expert Systems A. F. Schwarz,1993 Offers a conceptual and methodological understanding of chip design and of the fundamental principles in the computer aided design of VLSI circuits and systems CADCAS The text covers where why and how expert systems are used in subtasks of CADCAS and in the integrated chip design system   AI Expert ,1988   **World Wide Web Color Yellow Pages Simplified** Ruth Maran,1996 A visual introduction to navigating the World Wide Web   **The Logic Programming Tutor** Jocelyn Paine,1992-06-30 Software Programming Languages

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