

Chapter 4

Induction, Recursion, and Recurrences

4.1 Mathematical Induction

Smallest Counter-Examples

In Section 3.3, we saw one way of proving statements about infinite universes: we considered a “generic” member of the universe and derived the desired statement about that generic member. When our universe is the universe of integers, or is in a one-to-one correspondence with the integers, there is a second technique we can use.

Recall our our proof of Euclid’s Division Theorem (Theorem 2.12), which says that for each pair (m, n) of positive integers, there are nonnegative integers q and r such that $m = sq + r$ and $0 \leq r < n$. For the purpose of a proof by contradiction, we assumed that the statement was false. Then we said the following. “Among all pairs (m, n) that make it false, choose the smallest m that makes it false. We cannot have $m < n$ because then the statement would be true with $q = 0$ and $r = m$, and we cannot have $m = n$ because then the statement is true with $q = 1$ and $r = 0$. This means $m - n$ is a positive number smaller than m . We assumed that m was the smallest value that made the theorem false, and so the theorem must be true for the pair $(m - n, n)$. Therefore, there must exist a q' and r' such that

$$m - n = q'n + r', \text{ with } 0 \leq r' < n.$$

Thus $m = (q' + 1)n + r'$. Now, by setting $q = q' + 1$ and $r = r'$, we can satisfy the theorem for the pair (m, n) , contradicting the assumption that the statement is false. Thus the only possibility is that the statement is true.”

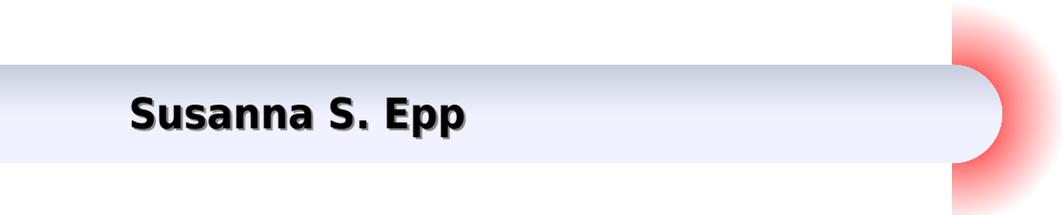
Focus on the sentences: “This means $m - n$ is a positive number smaller than m . We assumed that m was the smallest value that made the theorem false, and so the theorem must be true for the pair $(m - n, n)$. Therefore, there must exist a q' and r' such that

$$m - n = q'n + r', \text{ with } 0 \leq r' < n.$$

Thus $m = (q' + 1)n + r'$.” To analyze these sentences, let $p(m, n)$ denote the statement “there are nonnegative integers q and r with $0 \leq r < n$ such that $m = sq + r$.” The quoted sentences

4 2 Recursion Recurrences And Induction

Susanna S. Epp



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Algorithm Design: A Methodological Approach - 150 problems and detailed solutions Patrick Bosc, Marc Guyomard, Laurent Miclet, 2023-01-31 A bestseller in its French edition this book is original in its construction and its success in the French market demonstrates its appeal It is based on three principles 1 An organization of the chapters by families of algorithms exhaustive search divide and conquer etc On the contrary there is no chapter devoted only to a systematic exposure of say algorithms on strings Some of these will be found in different chapters 2 For each family of algorithms an introduction is given to the mathematical principles and the issues of a rigorous design with one or two pedagogical examples 3 For the most part the book details 150 problems spanning seven families of algorithms For each problem a precise and progressive statement is given More importantly a complete solution is detailed with respect to the design principles that have been presented often some classical errors are pointed out Roughly speaking two thirds of the book is devoted to the detailed rational construction of the solutions

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how theory is reflected in real Python programs Well known algorithms and data structures that are built into the Python language are explained and the user is shown how to implement and evaluate others

Methods in Algorithmic Analysis Vladimir A. Dobrushkin,2016-03-09 Explores the Impact of the Analysis of Algorithms on Many Areas within and beyond Computer Science A flexible interactive teaching format enhanced by a large selection of examples and exercises Developed from the author s own graduate level course *Methods in Algorithmic Analysis* presents numerous theories techniques and methods used for analyzing algorithms It exposes students to mathematical techniques and methods that are practical and relevant to theoretical aspects of computer science After introducing basic mathematical and combinatorial methods the text focuses on various aspects of probability including finite sets random variables distributions Bayes theorem and Chebyshev inequality It explores the role of recurrences in computer science numerical analysis engineering and discrete mathematics applications The author then describes the powerful tool of generating functions which is demonstrated in enumeration problems such as probabilistic algorithms compositions and partitions of integers and shuffling He also discusses the symbolic method the principle of inclusion and exclusion and its applications The book goes on to show how strings can be manipulated and counted how the finite state machine and Markov chains can help solve probabilistic and combinatorial problems how to derive asymptotic results and how convergence and singularities play leading roles in deducing asymptotic information from generating functions The final chapter presents the definitions and properties of the mathematical infrastructure needed to accommodate generating functions Accompanied by more than 1 000 examples and exercises this comprehensive classroom tested text develops students understanding of the mathematical methodology behind the analysis of algorithms It emphasizes the important relation between continuous classical mathematics and discrete mathematics which is the basis of computer science

The Mathematical Method Murray Eisenberg,1996 This text includes an eclectic blend of math number theory analysis and algebra with logic as an extra

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

The Bulletin of Mathematics Books ,1992

Automata, Languages and Programming ,2000

Discrete Mathematics with Applications Susanna S. Epp,2004 Susanna Epp s DISCRETE MATHEMATICS THIRD EDITION provides a clear introduction to discrete mathematics Renowned for her lucid accessible prose Epp explains complex abstract concepts with clarity and precision This book presents not only the major themes of discrete mathematics but also the reasoning that underlies mathematical thought Students develop the ability to think abstractly as they study the ideas of logic and proof While learning about such concepts as logic circuits and computer addition algorithm analysis

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comprehensive rigorous coverage Starts with a chapter Yes There Are Proofs and emphasizes how to do proofs throughout the text

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Recurrent Neural Networks for Prediction Danilo P. Mandic, Jonathon A. Chambers, 2001 New technologies in engineering physics and biomedicine are demanding increasingly complex methods of digital signal processing By presenting the latest research work the authors demonstrate how real time recurrent neural networks RNNs can be implemented to expand the range of traditional signal processing techniques and to help combat the problem of prediction Within this text neural networks are considered as massively interconnected nonlinear adaptive filters Analyses the relationships between RNNs and various nonlinear models and filters and introduces spatio temporal architectures together with the concepts of modularity and nesting Examines stability and relaxation within RNNs Presents on line learning algorithms for nonlinear adaptive filters and introduces new paradigms which exploit the concepts of a priori and a posteriori errors data reusing adaptation and normalisation Studies convergence and stability of on line learning algorithms based upon optimisation techniques such as contraction mapping and fixed point iteration Describes strategies for the exploitation of inherent relationships between parameters in RNNs Discusses practical issues such as predictability and nonlinearity detecting and includes several practical applications in areas such as air pollutant modelling and prediction attractor discovery and chaos ECG signal processing and speech processing Recurrent Neural Networks for Prediction offers a new insight into the learning algorithms architectures and stability of recurrent neural networks and consequently will have instant appeal It provides an extensive background for researchers academics and postgraduates enabling them to apply such networks in new applications VISIT OUR COMMUNICATIONS TECHNOLOGY WEBSITE <http://www.wiley.co.uk/commstech> VISIT OUR WEB PAGE <http://www.wiley.co.uk>

Fundamentals of Mathematics William M. Setek, Michael A. Gallo, 2002 For courses in Liberal Arts Mathematics This text succeeds at what other texts only attempt it demystifies mathematics It presents the fundamentals of a variety of mathematical disciplines in a straightforward easy to understand

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