

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

JS Bruner



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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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Discrete Mathematics Kenneth A. Ross, Charles R. B. Wright, 1992 This third edition offers an introduction to discrete mathematics covering relations induction counting techniques logic and graphs More advanced topics of Boolean algebra and permutation groups are included and there are numerous examples to reinforce the material

Automata, Languages and Programming, 2000 Journal of Computer Resource Management, 2004 Schaum's Outline of Discrete Mathematics, Fourth Edition Seymour Lipschutz, Marc Lipson, 2021-11-30 Study smarter and stay on top of your discrete mathematics course with the bestselling Schaum s Outline now with the NEW Schaum s app and website Schaum s Outline of Discrete Mathematics Fourth Edition is the go to study guide for more than 115 000 math majors and first and second year university students taking basic computer science courses With an outline format that facilitates quick and easy review Schaum s Outline of Discrete Mathematics Fourth Edition helps you understand basic concepts and get the extra practice you need to excel in these courses Coverage includes set theory relations functions and algorithms logic and propositional calculus techniques of counting advanced counting techniques recursion probability graph theory directed graphs binary trees properties of the integers languages automata machines finite state machines and Turing machines ordered sets and lattices and Boolean algebra Features NEW to this edition the new Schaum s app and website NEW to this edition 20 NEW problem solving videos online 467 solved problems and hundreds of additional practice problems Outline format to provide a concise guide to the standard college course in discrete mathematics Clear concise explanations of discrete mathematics concepts Expanded coverage of logic the rules of inference and basic types of proofs in mathematical reasoning Increased emphasis on discrete probability and aspects of probability theory and greater accessibility to counting techniques Logic chapter emphasizes the IF THEN and IF THEN ELSE sequencing that occurs in computer programming Computer arithmetic chapter covers binary and hexagon addition and multiplication Cryptology chapter includes substitution and RSA method Supports these major texts Discrete Mathematics and Its Applications Rosen and Discrete Mathematics Epp Appropriate for the following courses Introductory Discrete Mathematics and Discrete Mathematics

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