

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

Jianjun Gao



4 2 Recursion Recurrences And Induction:

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

FUNDAMENTALS OF DISCRETE MATHEMATICAL STRUCTURES, THIRD EDITION CHOWDHARY, K. R., 2015-01-02 This updated text now in its Third Edition continues to provide the basic concepts of discrete mathematics and its applications at an appropriate level of rigour The text teaches mathematical logic discusses how to work with discrete structures analyzes combinatorial approach to problem solving and develops an ability to create and understand mathematical models and algorithms essentials for writing computer programs Every concept introduced in the text is first explained from the point of view of mathematics followed by its relation to Computer Science In addition it offers excellent coverage of graph theory mathematical reasoning foundational material on set theory relations and their computer representation supported by a number of worked out examples and exercises to reinforce the students skill Primarily intended for undergraduate students of Computer Science and Engineering and Information Technology this text will also be useful for undergraduate and postgraduate students of Computer Applications New to this Edition Incorporates many new sections and subsections such as recurrence relations with constant coefficients linear recurrence relations with and without constant coefficients rules for counting and shorting Peano axioms graph connecting graph scanning algorithm lexicographic shorting chains antichains and order isomorphism complemented lattices isomorphic order sets cyclic groups automorphism groups Abelian groups group homomorphism subgroups permutation groups cosets and quotient subgroups Includes many new worked out examples definitions theorems exercises and GATE level MCQs with answers

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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

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