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Autor: Gries David

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This is the very first book to discuss the theory and principles of computer programming on the basis of the idea that a proof of correctness and a program should be developed hand in hand. It is built around the method first proposed by Dijkstra in his monograph *The Discipline of Programming* (1976), involving a "calculus for the derivation of programs." Directing his materials to the computer programmer with at least one year of experience, Gries presents explicit principles behind program development, and then leads the reader through example programs using those principles. Propositions and predicate calculus are presented as a tool for the programmer, rather than simply an object of study. The reader should come away with a fresh outlook on programming theory and practice, and the assurance to develop correct programs effectively.