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the book now in its second edition follows the structure of the first edition it introduces computer programming to a beginner using the programming language c the version of c used is the one standardised by the american national standards institute ansi c c has rapidly gained users due to its efficiency availability of rich data structures a large variety of operators and its affinity to the unix operating system c is a difficult language to learn if it is not methodically approached the attempt has been to introduce the basic aspects of c to enable the student to quickly start writing c programs and postpone more difficult features of c to later chapters after reading the first eleven chapters a beginner can start writing complete programs to solve useful problems difficult concepts such as the use of pointers and recursion are explained lucidly with many examples the book is eminently suitable for undergraduate and postgraduate students of computer science engineering students as per the prescribed syllabus of several universities key features a self contained introduction to programming for beginners using the c language eminently suitable for self study even by high school students all important programming language features illustrated with over 100 example programs good style in programming explained and illustrated new to the second edition chapters with programs have a new section at the end giving style notes relevant to that chapter every chapter is reviewed and revised correcting minor errors appendix i is rewritten to enable students to execute programs on desktop or laptop computers using linux or windows environment target audience be b tech cse bca mca b sc m sc computer science

this well organized book now in its second edition discusses the fundamentals of various data structures using c as the programming language beginning with the basics of c the discussion moves on to describe pointers arrays linked lists stacks queues trees heaps graphs files hashing and so on that form the base of data structure it builds up the concept of pointers in a lucid manner with suitable examples which forms the crux of data structures besides updated text and additional multiple choice questions the new edition deals with various classical problems such as 8 queens problem towers of hanoi minesweeper lift problem tic tac toe and knapsack problem which will help students understand how the real life problems can be solved by using data structures the book exhaustively covers all important topics prescribed in the syllabi of indian universities institutes including all the technical universities and nits primarily intended as a text for the undergraduate students of engineering computer science information technology and postgraduate students of computer application mca and computer science m sc the book will also be of immense use to professionals engaged in the field of computer science and information technology key features provides more than 160 complete programs for better understanding includes over 470 mcqs to cater to the syllabus needs of gate and other competitive exams contains over 500 figures to explain various algorithms and concepts contains solved examples and programs for practice provides companion cd containing additional programs for students use

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