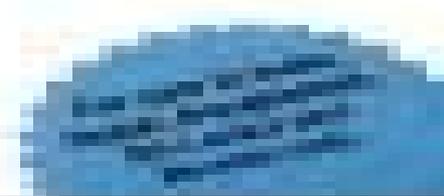


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Beginners and professionals alike will benefit from the numerous examples and extensive exercises developed to guide readers through each concept Step by step program code clarifies the concept usage and syntax of C language constructs and the underlying logic of their application Data structures are treated with algorithms trace of the procedures and then programs All data structures are illustrated with simple examples and diagrams The concept of learning by example has been emphasized throughout the book Every important feature of the language is illustrated in depth by a complete programming example Wherever necessary pictorial descriptions of concepts are included to facilitate better understanding Exercises are included at the end of each chapter The exercises are divided into three parts i multiple choice questions which test the understanding of the fundamentals and are also useful for taking competitive tests ii questions and answers these help the undergraduate students and iii review questions and problems enhance the comprehension of the subject Questions from GATE in Computer Science and Engineering are included to support the students who will be taking GATE examination

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Data Structures And Algorithms In C Joshi,2010 **Purely Functional Data Structures** Carnegie-Mellon University. Computer Science Dept,Chris Okasaki,1996 Abstract When a C programmer needs an efficient data structure for a particular problem he or she can often simply look one up in any of a number of good textbooks or handbooks Unfortunately programmers in functional languages such as Standard ML or Haskell do not have this luxury Although some data structures designed for imperative languages such as C can be quite easily adapted to a functional setting most cannot usually because they depend in crucial ways on assignments which are disallowed or at least discouraged in functional languages To address this imbalance we describe several techniques for designing functional data structures and numerous original data structures based on these techniques including multiple variations of lists queues double ended queues and heaps many supporting more exotic features such as random access or efficient catenation In addition we expose the fundamental role of lazy evaluation in amortized functional data structures Traditional methods of amortization break down when old versions of a data structure not just the most recent are available for further processing This property is known as persistence and is taken for granted in functional languages On the surface persistence and amortization appear to be incompatible but we show how lazy evaluation can be used to resolve this conflict yielding amortized data structures that are efficient even when used persistently Turning this relationship between lazy evaluation and amortization around the notion of amortization also provides the first practical techniques for analyzing the time requirements of non trivial lazy programs Finally our data structures offer numerous hints to programming language designers illustrating the utility of combining strict and lazy evaluation in a single language and providing non trivial examples using polymorphic recursion and higher order recursive

modules *Data Structures Using C* Nitin Upadhyay,2007-01-01

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