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for one or two semester courses in data structures cs 2 in the departments of computer science computer engineering business and management information systems this is the most student friendly data structures text available that introduces adts in individual brief chapters each with pedagogical tools to help students master each concept using the latest features of

java this unique object oriented presentation makes a clear distinction between specification and implementation to simplify learning while providing maximum classroom flexibility visit author frank carrano s making it real blog a discussion with instructors and students about teaching and leaning computer science frank m carrano com blog

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this book includes generic data types as well as enumerations for each loops the interface iterable the class scanner assert statements and autoboxing and unboxing amazon

written by a world renowned expert on programming methodology and the winner of the 2008 turing award this book shows how to build production quality programs programs that are reliable easy to maintain and quick to modify its emphasis is on modular program construction how to get the modules right and how to organize a program as a collection of modules the book presents a methodology effective for either an individual programmer who may be writing a small program or a single module in a larger one or a software engineer who may be part of a team developing a complex program comprised of many modules both audiences will acquire a solid foundation for object oriented program design and component based software development from this methodology because each module in a program corresponds to an abstraction such as a collection of documents or a routine to search the collection for

documents of interest the book first explains the kinds of abstractions most useful to programmers procedures iteration abstractions and most critically data abstractions indeed the author treats data abstraction as the central paradigm in object oriented program design and implementation the author also shows with numerous examples how to develop informal specifications that define these abstractions specifications that describe what the modules do and then discusses how to implement the modules so that they do what they are supposed to do with acceptable performance other topics discussed include encapsulation and the need for an implementation to provide the behavior defined by the specification tradeoffs between simplicity and performance techniques to help readers of code understand and reason about it focusing on such properties as rep invariants and abstraction functions type hierarchy and its use in defining families of related data abstractions debugging testing and requirements analysis program design as a top down iterative process and design patterns the java programming language is used for the book s examples however the techniques presented are language independent and an introduction to key java concepts is included for programmers who may not be familiar with the language

this work focuses on the important concepts of data abstraction and data structures it also introduces students to java classes along with other basic concepts of object oriented programming including inheritance polymorphism interfaces and packages

the second edition in java of the classic walls and mirrors approach to programming designs solutions to problems using both data abstraction the walls and recursion the mirrors data abstraction and problem solving with java walls and mirrors 2eprovides a focus on the important concepts of data abstraction and data structures in a way that beginning programmers find accessible the first part of the book covers problem solving techniques including a review of java fundamentals principles of programming and software engineering recursion and data abstraction and linked lists later chapters focus on problem solving with abstract data types including stacks queues algorithm efficiency and sorting trees and graphs this edition contains enhanced material on oo implementation market readers searching for problem solving solutions through abstraction algorithmic refinement data structures and recursion

the classic best selling data abstraction and problem solving with c walls and mirrors book provides a firm foundation in data abstraction that emphasizes the distinction between specifications and implementation as the basis for an object oriented approach this new edition offers the latest c features and an introduction to using doxygen a documentation generator for c enhanced coverage of software engineering concepts and additional uml diagrams

the first book to intervene in debates on computation in the digital humanities bringing together leading experts from across north america and europe computational humanities redirects debates around computation and humanities digital scholarship from dualistic arguments to nuanced discourse centered around theories of knowledge and power this volume is organized around four questions why or why not pursue computational humanities how do we engage in computational humanities what can we study using these methods who are the stakeholders recent advances in technologies for image and sound processing have expanded computational approaches to cultural forms beyond text and new forms of data from listservs and code repositories to tweets and other social media content have enlivened debates about what counts as digital humanities scholarship providing case studies of collaborations between humanities centered and computation centered researchers this volume highlights both opportunities and frictions showing that data and computation are as much about power prestige and precarity as they are about p values contributors mark algee hewitt stanford u david bamman u of california berkeley kaspar beelen u of london peter bell philipps u of marburg tobias blanke u of amsterdam julia damerow arizona state u quinn dombrowski stanford u crystal nicole eddins u of pittsburgh abraham gibson u of texas at san antonio tassie gniady crystal hall bowdoin college vanessa m holden u of kentucky david kloster indiana u manfred d laubichler arizona state u katherine mcdonough lancaster u barbara mcgillivray king s college london megan meredith lobay simon fraser u federico nanni alan turing institute fabian offert u of california santa barbara hannah ringler illinois institute of technology roopika risam dartmouth college joshua d rothman u of alabama benjamin m schmidt lisa tagliaferri rutgers u jeffrey tharsen u of chicago marieke van erp royal netherlands academy of arts and sciences lee zickel case western reserve u

this book constitutes the refereed proceedings of the 8th european conference on modelling foundations and applications held in kgs lyngby denmark in july 2012 the 20 revised full foundations track papers and 10 revised full applications track papers presented were carefully reviewed and selected from 81 submissions papers on all aspects of mde were received including topics such as architectural modelling and product lines code generation domain specic modeling metamodeling model analysis and verication model management model transformation and simulation the breadth of topics as well as the high quality of the results presented in these accepted papers demonstrate the maturity and vibrancy of the field

a revolutionary book that intertwines problem solving and software engineering with the study of traditional data structures topics promotes a five step methodology to limit program errors and increase efficiency problem specification analysis design implementation and testing the java application programming interface api is used throughout and wherever possible the specification and interface for a data structure follow the java collections framework

exam topics covered include tasks and scheduling remoting the spring services framework restful services with spring mvc the spring jms module jms and jta transactions with spring batch processing with spring batch and the spring integration framework prepare with confidence for the pivotal enterprise integration with spring exam one of the important aspects of this book is a focus on new and modern abstractions provided by spring therefore most of the features are shown with java annotations alongside established xml configurations most of the examples in the book are also based on the spring boot framework spring boot adoption is exponential because of its capability to significantly simplify spring configuration using sensible opinionated defaults but spring boot is not the target of the exam therefore all the features are also covered with plain spring configuration examples how to use spring to create concurrent applications and schedule tasks how to do remoting to implement client server applications how to work with spring services to create loosely coupled services and clients how to use spring mvc to create restful web services and clients how to integrate jms for asynchronous messaging based communication how to use local jms transactions with spring how to configure global jta transactions with spring how to use spring integration to create event driven pipes and filters architectures and integrate with external applications how to use spring batch for managed scalable batch processing that is based on both custom and built in processing components

in today s app driven era when programs are asynchronous and responsiveness is so vital reactive programming can help you write code that s more reliable easier to scale and better performing with this practical book java developers will first learn how to view problems in the reactive way and then build programs that leverage the best features of this exciting new programming paradigm authors tomasz nurkiewicz and ben christensen include concrete examples that use the rxjava library to solve real world performance issues on android devices as well as the server you ll learn how rxjava leverages parallelism and concurrency to help you solve today s problems this book also provides a preview of the upcoming 2 0 release write programs that react to multiple asynchronous sources of input without descending into callback hell get to that aha moment when you understand how to solve problems in the reactive way cope with observables that produce data too quickly to be consumed explore strategies to debug and to test programs written in the reactive style efficiently exploit parallelism and concurrency in your programs learn about the transition to rxjava version 2

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