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CONCURRENCY IN PRACTICE

 **Pearson**

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practices These are not theoretical research papers or product marketing blurbs This is all serious mission critical battle tested enterprise scale stuff James A Gosling Father of the Java Programming Language An essential element of secure coding in the Java programming language is a well documented and enforceable coding standard Coding standards encourage programmers to follow a uniform set of rules determined by the requirements of the project and organization rather than by the programmer s familiarity or preference Once established these standards can be used as a metric to evaluate source code using manual or automated processes The CERT R Oracle R Secure Coding Standard for Java TM provides rules designed to eliminate insecure coding practices that can lead to exploitable vulnerabilities Application of the standard s guidelines will lead to higher quality systems robust systems that are more resistant to attack Such guidelines are required for the wide range of products coded in Java for devices such as PCs game players mobile phones home appliances and automotive electronics After a high level introduction to Java application security seventeen consistently organized chapters detail specific rules for key areas of Java development For each area the authors present noncompliant examples and corresponding compliant solutions show how to assess risk and offer references for further information Each rule is prioritized based on the severity of consequences likelihood of introducing exploitable vulnerabilities and cost of remediation The standard provides secure coding rules for the Java SE 6 Platform including the Java programming language and libraries and also addresses new features of the Java SE 7 Platform It describes language behaviors left to the discretion of JVM and compiler implementers guides developers in the proper use of Java s APIs and security architecture and considers security concerns pertaining to standard extension APIs from the javax package hierarchy The standard covers security issues applicable to these libraries lang util Collections Concurrency Utilities Logging Management Reflection Regular Expressions Zip I O JMX JNI Math Serialization and JAXP

Optimizing Java Benjamin J Evans,James Gough,Chris Newland,2018-04-17 Performance tuning is an experimental science but that doesn t mean engineers should resort to guesswork and folklore to get the job done Yet that s often the case With this practical book intermediate to advanced Java technologists working with complex technology stacks will learn how to tune Java applications for performance using a quantitative verifiable approach Most resources on performance tend to discuss the theory and internals of Java virtual machines but this book focuses on the practicalities of performance tuning by examining a wide range of aspects There are no simple recipes tips and tricks or algorithms to learn Performance tuning is a process of defining and determining desired outcomes And it requires diligence Learn how Java principles and technology make the best use of modern hardware and operating systems Explore several performance tests and common anti patterns that can vex your team Understand the pitfalls of measuring Java performance numbers and the drawbacks of microbenchmarking Dive into JVM garbage collection logging monitoring tuning and tools Explore JIT compilation and Java language performance techniques Learn performance aspects of the Java Collections API and get an overview of Java concurrency

Java Generics and Collections Maurice Naftalin,Philip Wadler,2025-06-17 Java

Generics and Collections has been the go to guide to generics for more than a decade This second edition covers Java 21 providing a clear guide to generics from their most common uses to the strangest corner cases giving you everything you need to know to use and write generic APIs effectively It covers the collections library thoroughly so you ll always know how and when to use each collection for any given task And it explains stream processing so you ll know which model to use and how they interoperate to get the best out of the platform library This indispensable guide covers Fundamentals of generics type parameters and generic methods Subtyping and wildcards Generics and reflection Design patterns for generics Sets queues lists maps and their implementations Concurrent programming and thread safety with collections Performance of different collection implementations Best practices for using and extending the Java collections framework Design philosophy and comparison with other collections libraries

Enterprise JavaBeans 3.1 Andrew Lee Rubinger,Bill Burke,2010-09-08

Learn how to code package deploy and test functional Enterprise JavaBeans with the latest edition of this bestselling guide Written by the developers of JBoss EJB 3 1 this book not only brings you up to speed on each component type and container service in this implementation it also provides a workbook with several hands on examples to help you gain immediate experience with these components With version 3 1 EJB s server side component model for building distributed business applications is simpler than ever But it s still a complex technology that requires study and lots of practice to master Enterprise JavaBeans 3 1 is the most complete reference on this specification You ll find a straightforward no nonsense explanation of the underlying technology including Java classes and interfaces the component model and the runtime behavior of EJB Develop your first EJBs with a hands on walkthrough of EJB 3 1 concepts Learn how to encapsulate business logic with Session Beans and Message Driven Beans Discover how to handle persistence through Entity Beans the EntityManager and the Java Persistence API Understand EJB s container services such as dependency injection concurrency and interceptors Integrate EJB with other technologies in the Java Enterprise Edition platform Use examples with either the JBossAS OpenEJB or GlassFish v3 EJB Containers

Pragmatic Unit Testing in Java 8 with JUnit Jeff Langr,Andy Hunt,Dave Thomas,2015-04-14

The Pragmatic Programmers classic is back Freshly updated for modern software development Pragmatic Unit Testing in Java 8 With JUnit teaches you how to write and run easily maintained unit tests in JUnit with confidence You ll learn mnemonics to help you know what tests to write how to remember all the boundary conditions and what the qualities of a good test are You ll see how unit tests can pay off by allowing you to keep your system code clean and you ll learn how to handle the stuff that seems too tough to test Pragmatic Unit Testing in Java 8 With JUnit steps you through all the important unit testing topics If you ve never written a unit test you ll see screen shots from Eclipse IntelliJ IDEA and NetBeans that will help you get past the hard part getting set up and started Once past the basics you ll learn why you want to write unit tests and how to effectively use JUnit But the meaty part of the book is its collected unit testing wisdom from people who ve been there done that on production systems for at least 15 years veteran author and developer

Jeff Langr building on the wisdom of Pragmatic Programmers Andy Hunt and Dave Thomas You ll learn How to craft your unit tests to minimize your effort in maintaining them How to use unit tests to help keep your system clean How to test the tough stuff Memorable mnemonics to help you remember what s important when writing unit tests How to help your team reap and sustain the benefits of unit testing You won t just learn about unit testing in theory you ll work through numerous code examples When it comes to programming hands on is the only way to learn

Cracking The Java Interviews (Java 8), 3rd Edition Munish Chandel,2015-01-01 240 Real Java Interview Questions on Core Java Threads and Concurrency Algorithms Data Structures Design Patterns Spring Hibernate Puzzles Sample Interview Questions for Investment Banks HealthCare IT Startups Product and Service based companies This book is ideal if you are preparing for Java Job Interview in Indian Market Topics Covered in eBook Core Java Collections Concurrency multi threading Lambda Stream Generics Hibernate Spring Problems Object Oriented Design Problems Data structure and Algorithm problems This book tries to fill in the knowledge gaps for Java developers appearing for interviews in investment banking domain RBS BlackRock UBS Morgan Stanley CitiGroup Credit Suisse Barclays Capital Goldman J P Morgan Bank of America Nomura HSBC product company Oracle Adobe Markit or service sector companies Wipro Infosys HCL Sapient TCS This book contains collection of Java related questions which are considered important for the interview preparation A fair try has been given to address the Question otherwise references has been provided for in depth study

Java Cookbook Ian F. Darwin,2020-03-17 Java continues to grow and evolve and this cookbook continues to evolve in tandem With this guide you ll get up to speed right away with hundreds of hands on recipes across a broad range of Java topics You ll learn useful techniques for everything from string handling and functional programming to network communication Each recipe includes self contained code solutions that you can freely use along with a discussion of how and why they work If you re familiar with Java basics this cookbook will bolster your knowledge of the language and its many recent changes including how to apply them in your day to day development This updated edition covers changes through Java 12 and parts of 13 and 14 Recipes include Methods for compiling running and debugging Packaging Java classes and building applications Manipulating comparing and rearranging text Regular expressions for string and pattern matching Handling numbers dates and times Structuring data with collections arrays and other types Object oriented and functional programming techniques Input output directory and filesystem operations Network programming on both client and server Processing JSON for data interchange Multithreading and concurrency Using Java in big data applications Interfacing Java with other languages

Hands-On Java: Practical Exercises for Programmers Manjunath.R,2024-06-26 Are you ready to master Java programming through hands on practice Dive into the world of Java with Hands On Java Practical Exercises for Programmers a comprehensive guide designed to elevate your skills through a series of engaging exercises This book is tailored for programmers at all levels whether you re just starting your journey in Java or looking to enhance your proficiency Each exercise is thoughtfully designed to encompass

fundamental Java concepts spanning from foundational syntax to advanced topics By working through these exercises you will not only strengthen your understanding of Java but also gain practical experience in solving real world programming challenges

Java Programming Yakov Fain,2015-04-27 Quick and painless Java programming with expert multimedia instruction Java Programming 24 Hour Trainer 2nd Edition is your complete beginner s guide to the Java programming language with easy to follow lessons and supplemental exercises that help you get up and running quickly Step by step instruction walks you through the basics of object oriented programming syntax interfaces and more before building upon your skills to develop games web apps networks and automations This second edition has been updated to align with Java SE 8 and Java EE 7 and includes new information on GUI basics lambda expressions streaming API WebSockets and Gradle Even if you have no programming experience at all the more than six hours of Java programming screencasts will demonstrate major concepts and procedures in a way that facilitates learning and promotes a better understanding of the development process This is your quick and painless guide to mastering Java whether you re starting from scratch or just looking to expand your skill set Master the building blocks that go into any Java project Make writing code easier with the Eclipse tools Learn to connect Java applications to databases Design and build graphical user interfaces and web applications Learn to develop GUIs with JavaFX If you want to start programming quickly Java Programming 24 Hour Trainer 2nd Edition is your ideal solution

Functional Programming in Java Venkat Subramaniam,2023-07-20 Imagine writing Java code that reads like the problem statement code that s highly expressive concise easy to read and modify and has reduced complexity With the functional programming capabilities in Java that s not a fantasy This book will guide you from the familiar imperative style through the practical aspects of functional programming using plenty of examples Apply the techniques you learn to turn highly complex imperative code into elegant and easy to understand functional style code Updated to the latest version of Java this edition has four new chapters on error handling refactoring to functional style transforming data and idioms of functional programming Don t struggle with the limitations of the imperative style instead learn to combine object oriented programming with the functional style to reduce the accidental complexity Harness the functional programming capabilities of Java to create applications where the program reveals its intentions and your team can quickly understand and modify code to align with changing business requirements Unlock the power of lambda expressions and the Streams API to turn the oft written spaghetti code into highly concise expressive elegant and maintainable code See how Streams make the arduous task of parallelizing code as easy as flipping a switch when superior speed is necessary Apply design patterns built around lambda expressions safely manage resource allocations use memoization and learn to transform data into different forms all while honoring immutability and providing thread safety to leverage lazy evaluation for efficiency and parallel execution for performance Move beyond the basics explore the idioms for writing functional programs Learn to think functionally by refactoring legacy code into the functional style And if your code runs aground due to failures learn to properly handle errors

the functional way Don't drown in theory instead learn the practical functional programming techniques to create superior Java code What You Need Java version 8 or newer Head First Java Kathy Sierra,Bert Bates,Trisha Gee,2022-05-12 What will you learn from this book Head First Java is a complete learning experience in Java and object oriented programming With this book you'll learn the Java language with a unique method that goes beyond how to manuals and helps you become a great programmer Through puzzles mysteries and soul searching interviews with famous Java objects you'll quickly get up to speed on Java's fundamentals and advanced topics including lambdas streams generics threading networking and the dreaded desktop GUI If you have experience with another programming language Head First Java will engage your brain with more modern approaches to coding the sleeker faster and easier to read write and maintain Java of today What's so special about this book If you've read a Head First book you know what to expect a visually rich format designed for the way your brain works If you haven't you're in for a treat With Head First Java you'll learn Java through a multisensory experience that engages your mind rather than by means of a text heavy approach that puts you to sleep *97 Things Every Java Programmer Should Know* Kevlin Henney,Trisha Gee,2020-05-15 If you want to push your Java skills to the next level this book provides expert advice from Java leaders and practitioners You'll be encouraged to look at problems in new ways take broader responsibility for your work stretch yourself by learning new techniques and become as good at the entire craft of development as you possibly can Edited by Kevlin Henney and Trisha Gee *97 Things Every Java Programmer Should Know* reflects lifetimes of experience writing Java software and living with the process of software development Great programmers share their collected wisdom to help you rethink Java practices whether working with legacy code or incorporating changes since Java 8 A few of the 97 things you should know Behavior Is Easy State Is Hard Edson Yanaga Learn Java Idioms and Cache in Your Brain Jeanne Boyarsky Java Programming from a JVM Performance Perspective Monica Beckwith Garbage Collection Is Your Friend Holly K Cummins Java's Unspeakable Types Ben Evans The Rebirth of Java Sander Mak Do You Know What Time It Is Christin Gorman **Topics in Parallel and Distributed Computing** Sushil K. Prasad,Anshul Gupta,Arnold Rosenberg,Alan Sussman,Charles Weems,2018-09-29 This book introduces beginning undergraduate students of computing and computational disciplines to modern parallel and distributed programming languages and environments including map reduce general purpose graphics processing units GPUs and graphical user interfaces GUI for mobile applications The book also guides instructors via selected essays on what and how to introduce parallel and distributed computing topics into the undergraduate curricula including quality criteria for parallel algorithms and programs scalability parallel performance fault tolerance and energy efficiency analysis The chapters designed for students serve as supplemental textual material for early computing core courses which students can use for learning and exercises The illustrations examples and sequences of smaller steps to build larger concepts are also tools that could be inserted into existing instructor material The chapters intended for instructors are written at a teaching level and serve as a

rigorous reference to include learning goals advice on presentation and use of the material within early and advanced undergraduate courses Since Parallel and Distributed Computing PDC now permeates most computing activities imparting a broad based skill set in PDC technology at various levels in the undergraduate educational fabric woven by Computer Science CS and Computer Engineering CE programs as well as related computational disciplines has become essential This book and others in this series aim to address the need for lack of suitable textbook support for integrating PDC related topics into undergraduate courses especially in the early curriculum The chapters are aligned with the curricular guidelines promulgated by the NSF IEEE TCPP Curriculum Initiative on Parallel and Distributed Computing for CS and CE students and with the CS2013 ACM IEEE Computer Science Curricula

C++20 for Programmers Paul Deitel,Harvey

Deitel,2022-03-31 The professional programmer s Deitel guide to C 20 Written for programmers with a background in another high level language in this book you ll learn Modern C development hands on using C 20 and its Big Four features Ranges Concepts Modules and Coroutines For more details see the Preface and the table of contents diagram inside the front cover In the context of 200 hands on real world code examples you ll quickly master Modern C coding idioms using popular compilers Visual C GNU g Apple Xcode and LLVM Clang After the C fundamentals quick start you ll move on to C standard library containers array and vector functional style programming with C 20 Ranges and Views strings files and regular expressions object oriented programming with classes inheritance runtime polymorphism and static polymorphism operator overloading copy move semantics RAI and smart pointers exceptions and a look forward to C 23 Contracts standard library containers iterators and algorithms templates C 20 Concepts and metaprogramming C 20 Modules and large scale development and concurrency parallelism the C 17 and C 20 parallel standard library algorithms and C 20 Coroutines Features Rich coverage of C 20 s Big Four Ranges Concepts Modules and Coroutines Objects Natural Approach Use standard libraries and open source libraries to build significant applications with minimal code Hundreds of real world live code examples Modern C C 20 17 14 11 and a look to C 23 Compilers Visual C GNU g Apple Xcode Clang LLVM Clang Docker GNU GCC LLVM Clang Fundamentals Control statements functions strings references pointers files exceptions Object oriented programming Classes objects inheritance runtime and static polymorphism operator overloading copy move semantics RAI smart pointers Functional style programming C 20 Ranges and Views lambda expressions Generic programming Templates C 20 Concepts and metaprogramming C 20 Modules Large Scale Development Concurrent programming Concurrency multithreading parallel algorithms C 20 Coroutines coroutines support libraries C 23 executors Future A look forward to Contracts range based parallel algorithms standard library coroutine support and more C 20 for Programmers builds up an intuition for modern C that every programmer should have in the current software engineering ecosystem The unique and brilliant ordering in which the Deitels present the material jibes much more naturally with the demands of modern production grade programming environments I strongly recommend this book for anyone who needs to

get up to speed on C particularly in professional programming environments where the idioms and patterns of modern C can be indecipherable without the carefully crafted guidance that this book provides Dr Daisy Hollman ISO C Standards Committee Member This is a fine book that covers a surprising amount of the very large language that is C 20 An in depth treatment of C for a reader familiar with how things work in other programming languages Arthur O Dwyer C trainer Chair of CppCon s Back to Basics track author of several accepted C 17 20 23 proposals and the book Mastering the C 17 STL Forget about callback functions bare pointers and proprietary multithreading libraries C 20 is about standard concurrency features generic lambda expressions metaprogramming tighter type safety and the long awaited concepts which are all demonstrated in this book Functional programming is explained clearly with plenty of illustrative code listings The excellent chapter Parallel Algorithms and Concurrency A High Level View is a highlight of this book Danny Kalev Ph D and Certified System Analyst and Software Engineer Former ISO C Standards Committee Member Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Note eBooks are 4 color and print books are black and white

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Learning Concurrent Programming in Scala Aleksandar Prokopec,2017-02-22 Learn the art of building intricate modern scalable and concurrent applications using Scala About This Book Make the most of Scala by understanding its philosophy and harnessing the power of multicores Get acquainted with cutting edge technologies in the field of concurrency through practical real world applications Get this step by step guide packed with pragmatic examples Who This Book Is For If you are a Scala programmer with no prior knowledge about concurrent programming or seeking to broaden your existing knowledge about concurrency this book is for you Basic knowledge of the Scala programming language will be helpful Also if you have a solid knowledge in another programming language such as Java you should find this book easily accessible What You Will Learn

Get to grips with the fundamentals of concurrent programming on modern multiprocessor systems Build high performance concurrent systems from simple low level concurrency primitives Express asynchrony in concurrent computations with futures and promises Seamlessly accelerate sequential programs by using data parallel collections Design safe scalable and easy to comprehend in memory transactional data models Transparently create distributed applications that scale across multiple machines Integrate different concurrency frameworks together in large applications Develop and implement scalable and easy to understand concurrent applications in Scala 2.12 In Detail Scala is a modern multiparadigm programming language designed to express common programming patterns in a concise elegant and type safe way Scala smoothly integrates the features of object oriented and functional languages In this second edition you will find updated coverage of the Scala 2.12 platform The Scala 2.12 series targets Java 8 and requires it for execution The book starts by introducing you to the foundations of concurrent programming on the JVM outlining the basics of the Java Memory Model and then shows some of the classic building blocks of concurrency such as the atomic variables thread pools and concurrent data structures along with the caveats of traditional concurrency The book then walks you through different high level concurrency abstractions each tailored toward a specific class of programming tasks while touching on the latest advancements of async programming capabilities of Scala It also covers some useful patterns and idioms to use with the techniques described Finally the book presents an overview of when to use which concurrency library and demonstrates how they all work together and then presents new exciting approaches to building concurrent and distributed systems Style and approach The book provides a step by step introduction to concurrent programming It focuses on easy to understand examples that are pragmatic and applicable to real world applications Different topics are approached in a bottom up fashion gradually going from the simplest foundations to the most advanced features *Pragmatic Scala* Venkat

Subramaniam, 2015-09-10 Our industry is moving toward functional programming but your object oriented experience is still valuable Scala combines the power of OO and functional programming and *Pragmatic Scala* shows you how to work effectively with both Updated to Scala 2.11 with in depth coverage of new features such as Akka actors parallel collections and tail call optimization this book will show you how to create stellar applications The first edition of this book was released as *Programming Scala* Our industry is moving toward functional programming but your object oriented experience is still valuable Scala combines the power of OO and functional programming and *Pragmatic Scala* shows you how to work effectively with both Updated to Scala 2.11 with in depth coverage of new features such as Akka actors parallel collections and tail call optimization this book will show you how to create stellar applications This thorough introduction to Scala will get you coding in this powerful language right away You ll start from the familiar ground of Java and with easy to follow examples you ll learn how to create highly concise and expressive applications with Scala You ll find out when and how to mix both imperative and functional style and how to use parallel collections and Akka actors to create high performance

concurrent applications that effectively use multicore processors Scala has evolved since the first edition of this book and Pragmatic Scala is a significant update We've revised each chapter and added three new chapters and six new sections to explore the new features in Scala You'll learn how to Safely manage concurrency with parallel collections and Akka actors Create expressive readable code with value classes and improved implicit conversions Create strings from data with no sweat using string interpolation Create domain specific languages Optimize your recursions with tail call optimization Whether you're interested in creating concise robust single threaded applications or highly expressive thread safe concurrent programs this book has you covered What You Need The Scala compiler 2.x and the JDK are required to make use of the concepts and the examples in this book

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