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Java™ Coding Guidelines brings together expert guidelines, recommendations, and code examples to help you meet these demands. Written by the same team that brought you The CERT® Oracle ® Secure Coding Standard for Java™, this guide extends that previous work's expert security advice to address many additional quality attributes.

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Java Coding Guidelines: 75 Recommendations for Reliable and Secure Programs - Ebook written by Fred Long, Dhruv Mohindra, Robert C. Seacord, Dean F. Sutherland, David Svoboda. Read this book using Google Play Books app on your PC, android, iOS devices. Download for offline reading, highlight, bookmark or take notes while you read Java Coding Guidelines: 75 Recommendations for Reliable and ...

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The quality of Java code is more critical than ever. That code, relied upon for mission-critical functions by organizations worldwide, must be reliable, safe, robust, fast, and maintainable - and, as recent events have demonstrated, it must especially be secure. Now, Java Coding Guidelines brings together workable guidelines and sample code for ensuring that all your Java software meets these ...

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Java Coding Guidelines: 75 Recommendations for Reliable ...
James Gosling, the creator of Java writes in the forward that Java Coding Guidelines: 75 Recommendations for Reliable and Secure Programs highlights the fact that information security is not a feature; rather it's an attitude toward taking due care at every point. Gosling found that the book is full of excellent guidance for dealing with those details.

Java Coding Guidelines 75 Recommendations for Reliable and ...
Java™ Coding Guidelines brings together expert guidelines, recommendations, and code examples to help you meet these demands. You'll find 75 guidelines, each presented consistently and intuitively. For each guideline, conformance requirements are specified; for most, noncompliant code examples and compliant solutions are also offered.

Java Coding Guidelines: 75 Recommendations for Reliable ...
This book is a successor to "The CERT Oracle Secure Coding Standard for Java." My biggest gripe with that book was that many of the rules didn't pertain to security. This book was named "Java Coding Guidelines – 75 Recommendations for Reliable and Secure Programs." I like this title much better.

Java Coding Guidelines: 75 Recommendations for Reliable ...
Buy Java Coding Guidelines: 75 Recommendations for Reliable and Secure Programs: 75 Recommendations for Reliable and Secure Programs (SEI Series in ... Series in Software Engineering (Paperback)) 01 by Long, Fred (ISBN: 9780321933157) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Java language mechanisms should be used to limit the scope, lifetime, and accessibility of program resources. Also, Java annotations can be used to document the program, aiding readability and maintenance. Java programmers should be aware of implicit behaviors and avoid unwarranted assumptions about how the system ...

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1 Introduction. This document serves as the complete definition of Google's coding standards for source code in the Java™ Programming Language. A Java source file is described as being in Google Style if and only if it adheres to the rules herein.. Like other programming style guides, the issues covered span not only aesthetic issues of formatting, but other types of conventions or coding ...

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Java Coding Guidelines: 75 Recommendations for Reliable and Secure Programs provides guidelines, recommendations, and examples to enable the creation of reliable, robust, fast, maintainable, and secure code. Source Code Analysis Laboratory (SCALe)

SEI CERT Oracle Coding Standard for Java - Confluence
Java coding guidelines; 75 recommendations for reliable and secure programs. Long, Fred and Dhruv Mohindra, Robert C. Seacord, Dean F. Sutherland, David Svoboda. Addison-Wesley 2014 277 pages $39.99 The SEI series in software engineering QA76.73

Java coding guidelines; 75 recommendations for reliable ...
Java coding guidelines : 75 recommendations for reliable and secure programs. [Fred Long] -- "Organizations worldwide rely on Java code to perform mission-critical tasks, and therefore that code must be reliable, robust, fast, maintainable, and secure.

Java coding guidelines : 75 recommendations for reliable ...
From among the 75 guidelines published in Java Coding Guidelines: 75 Recommendations for Reliable and Secure Programs, authors Robert C. Seacord, senior member of the SEI technical staff and...

"Organizations worldwide rely on Java code to perform mission-critical tasks, and therefore that code must be reliable, robust, fast, maintainable, and secure. JavaTM Coding Guidelines brings together expert guidelines, recommendations, and code examples to help you meet these demands."--Publisher description.

"A must-read for all Java developers. . . . Every developer has a responsibility to author code that is free of significant security vulnerabilities. This book provides realistic guidance to help Java developers implement desired functionality with security, reliability, and maintainability goals in mind." –Mary Ann Davidson, Chief Security Officer, Oracle Corporation Organizations worldwide rely on Java code to perform mission-critical tasks, and therefore that code must be reliable, robust, fast, maintainable, and secure. Java™ Coding Guidelines brings together expert guidelines, recommendations, and code examples to help you meet these demands. Written by the same team that brought you The CERT® Oracle ® Secure Coding Standard for Java™, this guide extends that previous work's expert security advice to address many additional quality attributes. You'll find 75 guidelines, each presented consistently and intuitively. For each guideline, conformance requirements are specified; for most, noncompliant code examples and compliant solutions are also offered. The authors explain when to apply each guideline and provide references to even more detailed information. Reflecting pioneering research on Java security, Java™ Coding Guidelines offers updated techniques for protecting against both deliberate attacks and other unexpected events. You'll find best practices for improving code reliability and clarity, and a full chapter exposing common misunderstandings that lead to suboptimal code. With a Foreword by James A. Gosling, Father of the Java Programming Language

The only comprehensive set of guidelines for secure Java programming - from the field's leading organizations, CERT and Oracle • •Authoritative, end-to-end code-level requirements for building secure systems with any recent version of Java, including the new Java 7 •Presents techniques that also improve safety, reliability, dependability, robustness, availability, maintainability, and other attributes of quality. •Includes extensive risk assessment guidance, plus references for further information. This is the first authoritative, comprehensive compilation of code-level requirements for building secure systems in Java. Organized by CERT's pioneering software security experts, with support from Oracle's own Java platform developers, it covers every facet of secure software coding with Java 7 SE and Java 6 SE, and offers value even to developers working with other Java versions. The authors itemize the most common coding errors leading to vulnerabilities in Java programs, and provide specific guidelines for avoiding each of them. They show how to produce programs that are not only secure, but also safer, more reliable, more robust, and easier to maintain. After a high-level introduction to Java application security, eighteen consistently-organized chapters detail specific guidelines for each facet of Java development. Each set of guidelines defines conformance, presents both noncompliant examples and corresponding compliant solutions, shows how to assess risk, and offers references for further information. To limit this book's size, the authors focus on 'normative requirements': strict rules for what programmers must do for their work to be secure, as defined by conformance to specific standards that can be tested through automated analysis software. (Note: A follow-up book will present 'non-normative requirements': recommendations for what Java developers typically 'should' do to further strengthen program security beyond testable 'requirements.')

"A must-read for all Java developers. . . . Every developer has a responsibility to author code that is free of significant security vulnerabilities. This book provides realistic guidance to help Java developers implement desired functionality with security, reliability, and maintainability goals in mind." –Mary Ann Davidson, Chief Security Officer, Oracle Corporation Organizations worldwide rely on Java code to perform mission-critical tasks, and therefore that code must be reliable, robust, fast, maintainable, and secure. Java™ Coding Guidelines brings together expert guidelines, recommendations, and code examples to help you meet these demands. Written by the same team that brought you The CERT® Oracle ® Secure Coding Standard for Java™, this guide extends that previous work's expert security advice to address many additional quality attributes. You'll find 75 guidelines, each presented consistently and intuitively. For each guideline, conformance requirements are specified; for most, noncompliant code examples and compliant solutions are also offered. The authors explain when to apply each guideline and provide references to even more detailed information. Reflecting pioneering research on Java security, Java™ Coding Guidelines offers updated techniques for protecting against both deliberate attacks and other unexpected events. You'll find best practices for improving code reliability and clarity, and a full chapter exposing common misunderstandings that lead to suboptimal code. With a Foreword by James A. Gosling, Father of the Java Programming Language

A detailed introduction to the C programming language for experienced programmers. The world runs on code written in the C programming language, yet most schools begin the curriculum with Python or Java. Effective C bridges this gap and brings C into the modern era--covering the modern C17 Standard as well as potential C2x features. With the aid of this instant classic, you'll soon be writing professional, portable, and secure C programs to power robust systems and solve real-world problems. Robert C. Seacord introduces C and the C Standard Library while addressing best practices, common errors, and open debates in the C community. Developed together with other C Standards committee experts, Effective C will teach you how to debug, test, and analyze C programs. You'll benefit from Seacord's concise explanations of C language constructs and behaviors, and from his 40 years of coding experience. You'll learn: • How to identify and handle undefined behavior in a C program • The range and representations of integers and floating-point values • How dynamic memory allocation works and how to use nonstandard functions • How to use character encodings and types • How to perform I/O with terminals and filesystems using C Standard streams and POSIX file descriptors • How to understand the C compiler's translation phases and the role of the preprocessor • How to test, debug, and analyze C programs Effective C will teach you how to write professional, secure, and portable C code that will stand the test of time and help strengthen the foundation of the computing world.

"The security of information systems has not improved at a rate consistent with the growth and sophistication of the attacks being made against them. To address this problem, we must improve the underlying strategies and techniques used to create our systems. Specifically, we must build security in from the start, rather than append it as an afterthought. That's the point of Secure Coding in C and C++. In careful detail, this book shows software developers how to build high-quality systems that are less vulnerable to costly and even catastrophic attack. It's a book that every developer should read before the start of any serious project." --Frank Abagnale, author, lecturer, and leading consultant on fraud prevention and secure documents Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects. Having analyzed nearly 18,000 vulnerability reports over the past ten years, the CERT/Coordination Center (CERT/CC) has determined that a relatively small number of root causes account for most of them. This book identifies and explains these causes and shows the steps that can be taken to prevent exploitation. Moreover, this book encourages programmers to adopt security best practices and develop a security mindset that can help protect software from tomorrow's attacks, not just today's. Drawing on the CERT/CC's reports and conclusions, Robert Seacord systematically identifies the program errors most likely to lead to security breaches, shows how they can be exploited, reviews the potential consequences, and presents secure alternatives. Coverage includes technical detail on how to Improve the overall security of any C/C++ application Thwart buffer overflows and stack-smashing attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer-related problems: integer overflows, sign errors, and truncation errors Correctly use formatted output functions without introducing format-string vulnerabilities Avoid I/O vulnerabilities, including race conditions Secure Coding in C and C++ presents hundreds of examples of secure code, insecure code, and exploits, implemented for Windows and Linux. If you're responsible for creating secure C or C++ software--or for keeping it safe--no other book offers you this much detailed, expert assistance.

Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code.

The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker's Guide is light on reusable code and heavier on design philosophy, directing the reader to excellent sources that already exist.

This book, first published in 2000, Illustrates rules of Java code-writing with parallel examples of correct and incorrect usage.