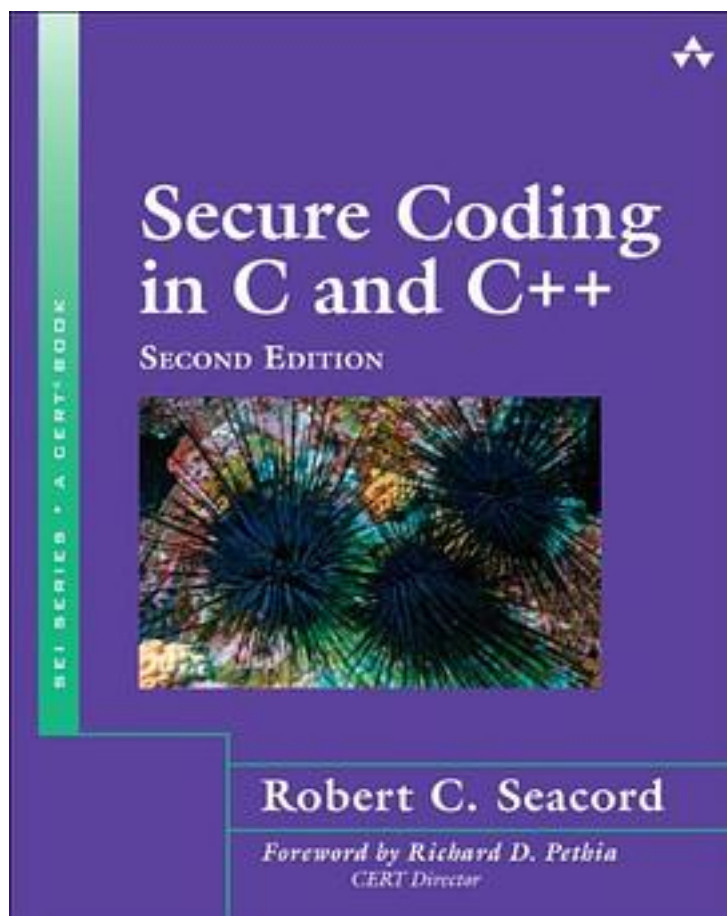


Secure Coding in C and C++



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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 tens of thousands of vulnerability reports since 1988, CERT has determined that a relatively small number of root causes account for most of the

vulnerabilities. Secure Coding in C and C++, Second Edition, identifies and explains these root causes and shows the steps that can be taken to prevent exploitation. Moreover, this book encourages programmers to adopt security best practices and to develop a security mindset that can help protect software from tomorrow's attacks, not just today's. Drawing on the CERT's reports and conclusions, Robert C. 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 or C++ application
- * Thwart buffer overflows, stack-smashing, and return-oriented programming 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 resulting from signed integer overflows, unsigned integer wrapping, and truncation errors
- * Perform secure I/O, avoiding file system vulnerabilities
- * Correctly use formatted output functions without introducing format-string vulnerabilities
- * Avoid race conditions and other exploitable vulnerabilities while developing concurrent code

The second edition features

- * Updates for C11 and C++11
- * Significant revisions to chapters on strings, dynamic memory management, and integer security
- * A new chapter on concurrency

Access to the online secure coding course offered through Carnegie Mellon's Open Learning Initiative (OLI) Secure Coding in C and C++, Second Edition, 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.

作者介绍:

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标签

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C

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计算机科学

评论

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书评

书很好，翻译很垃圾，垃圾到我特意来评论。举例：在软件安全领域，一个值称作被污染的，如果他的来源是不受信任的（程序的控制之外），并且没有背景画，以确保它符合该值的使用者要求的任何约束，例如，所有的字符串都要求是空字符结尾的约束。一字不差，你翻译的是个屁。推荐...

看到有友人评论这本书卖得太贵，忍不住说几句。这本书作者是CERT专门负责分析漏洞的研究人员，书里面很清晰的整理了各类软件漏洞成因，给的例子非常的合适，应该是一看就能看懂，但是又不失深度。如果把里面的基本内容都烂熟于心，基本上可以去开始CTF或者初级漏洞挖掘了。再...

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