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Titolo	Pro Java 8 Programming / / by Terrill Brett Spell
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2015
ISBN	9781484206416 148420641X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (695 p.)
Collana	The expert's voice in Java
Disciplina	004
Soggetti	Java (Computer program language) Software engineering Java Software Engineering/Programming and Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Contents at a Glance; Introduction; Chapter 1: Going Inside Java; Java's Architecture; The Java Virtual Machine; Different JVM Implementations; The JVM As a Runtime Execution Environment; The Runtime Data Areas of the JVM; The Heap; The Stack; Method Area; Registers; Runtime Constant Pool; The Garbage Collector; The JVM: Loading, Linking, and Initializing; The First Step; Loading; Linking; Java Class File Verification; Preparation; Resolution; Initialization; Bytecode Execution; The Java Class File Format; The Java Programming Language and APIs; The Java Programming Language; The Java APIs Choosing a Superclass for a Custom Exception Class Using a Common Superclass for Different Exception Types; Adding Information to an Exception; When to Catch Exceptions; Using a finally Block; Nested Exceptions; Stack Traces and Message Text; Avoiding Exceptions; Assertions; Enumerations; Summary; Chapter 3: Lambdas and Other Java 8 Features; Lambda Expression Concepts; Analyzing the Example; Functional Interface Methods; Default Methods; Multiple Inheritance Ambiguity; Streams; Optional; Parallel Streams; Improved Date/Time Handling In Java 8; Date/Time Support Before Java 8 Thread Management Understanding the Problem; Synchronizing the Use of Shared Resources; Nested Calls to Synchronized Methods and Code

Blocks; Synchronized Blocks vs. Methods; Deadlocks; High-Level Synchronization; Lock Ordering; Thread Priorities; Daemon Threads; Adding Threads to an Application; Controlling Threads; Starting a Thread; Making a Thread "Sleep"; Suspending a Thread; Resuming a Thread; Stopping a Thread; Interrupting a Thread; Completing DownloadManager; Deprecated Methods in Thread; DownloadFiles; ThreadGroup; Uncaught Exceptions; Voluntarily Relinquishing the Processor  
Concurrency Utilities

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## Sommario/riassunto

Pro Java 8 Programming covers the core Java development kit. It takes advantage of the finer points of the core standard edition (SE) and development kit version 8. You'll discover the particulars of working with the Java language and APIs to develop applications in many different contexts. You will also delve into more advanced topics like lambda expressions, closures, new i/o (NIO.2), enums, generics, XML, metadata and the Swing APIs for GUI design and development. By the end of the book, you'll be fully prepared to take advantage of Java's ease of development, and able to create powerful, sophisticated Java applications.

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