1. Record Nr. UNINA9910300476403321 Autore Kalicharan Noel Titolo Advanced Topics in Java: Core Concepts in Data Structures / / by Noel Kalicharan Pubbl/distr/stampa Berkeley, CA:,: Apress:,: Imprint: Apress,, 2014 **ISBN** 1-4302-6620-1 Edizione [1st ed. 2014.] Descrizione fisica 1 online resource (322 p.) Collana Expert's Voice in Java Disciplina 004 005.2 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 Includes index. ""Contents at a Glance"": ""Contents"": ""About the Author"": ""About the Nota di contenuto Technical Reviewers""; ""Preface""; ""Chapter 1: Sorting, Searching, and Merging""; ""1.1 Sorting an Array: Selection Sort""; ""1.1.1 Analysis of Selection Sort": "1.2 Sorting an Array: Insertion Sort": "1.2.1 Analysis of Insertion Sort""; ""1.3 Inserting an Element in Place""; ""1.4 Sorting a String Array""; ""1.5 Sorting Parallel Arrays""; ""1.6 Binary Search""; ""1.7 Searching an Array of Strings""; ""1.8 Example: Word Frequency Count""; ""1.9 Merging Ordered Lists""; ""1.9.1 Implementing the Merge" ""Chapter 2: Introduction to Objects"""2.1 Objects""; ""2.2 Defining Classes and Creating Objects""; ""2.2.1 Access to Class and Instance Variables""; ""2.2.2 Initializing Class and Instance Variables""; ""2.3 Constructors""; ""2.3.1 Overloading a Constructor""; ""2.4 Data

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## Sommario/riassunto

Java is one of the most widely used programming languages today. It was first released by Sun Microsystems in 1995. Over the years, its popularity has grown to the point where it plays an important role in most of our lives. From laptops to data centers, game consoles to scientific supercomputers, cell phones to the Internet, Java is everywhere! There are tons of applications and heaps of websites that will not work unless you have Java installed, and more are created every day. And, of course, Java is used to power what has become the world's most dominant mobile platform, Android. Advanced Topics In Java teaches the algorithms and concepts that any budding software developer should know. You'll delve into topics such as sorting, searching, merging, recursion, random numbers and simulation, among others. You will increase the range of problems you can solve when you learn how to create and manipulate versatile and popular data structures such as binary trees and hash tables. This book assumes you have a working knowledge of basic programming concepts such as variables, constants, assignment, selection (if..else) and looping (while, for). It also assumes you are comfortable with writing functions and working with arrays. If you study this book carefully and do the exercises conscientiously, you would become a better and more agile software developer, more prepared to code today's applications - no matter the language.