# daniel liang introduction to java programming 8th edition

Daniel Liang Introduction To Java Programming 8th Edition daniel liang introduction to java programming 8th edition is a widely recognized textbook that serves as a comprehensive guide for students and beginners venturing into the world of Java programming. Authored by Daniel Liang, a renowned educator and expert in computer science education, this book has established itself as a staple resource for learning Java, especially among high school and early college students. The 8th edition continues to build on the foundational concepts introduced in previous editions while integrating the latest updates in Java technology, making it an essential resource for anyone looking to master Java programming from the ground up. Overview of Daniel Liang's Introduction to Java Programming 8th Edition Purpose and Audience Daniel Liang's Introduction to Java Programming, 8th Edition is designed primarily for beginners with little or no prior programming experience. Its primary goal is to introduce core programming concepts through Java in a clear, accessible manner. The book caters to high school students, college freshmen, and anyone interested in learning programming fundamentals with Java as the language of choice. It emphasizes problem-solving skills, logical thinking, and practical coding skills that students can apply in real- world scenarios. Content Structure and Approach The book adopts a step-by-step approach, starting with basic programming concepts such as variables, data types, and control statements, then gradually progressing to more advanced topics like object-oriented programming, inheritance, and graphical user interfaces. The content is organized into chapters that build upon each other, ensuring a smooth learning curve. Key features include: - Clear explanations of concepts paired with practical examples. - End-of-chapter exercises and programming projects to reinforce learning. - Real-world applications to demonstrate the relevance of Java programming. - Use of modern Java features aligned with

the latest Java SE versions. Key Features of the 8th Edition 2 Updated Content and Java SE Compatibility One of the significant updates in the 8th edition is its alignment with the latest Java SE platform, ensuring learners are introduced to current programming practices. The book incorporates features such as lambda expressions, enhanced switch statements, and modern APIs, providing students with relevant skills for contemporary Java development. Enhanced Learning Resources The 8th edition offers a variety of supplementary materials, including: - Online code repositories for practice. - Interactive exercises and quizzes. - Instructor resources for educators. - Online tutorials and video lectures. Focus on Object-Oriented Programming Given Java's status as an object-oriented programming language, the book emphasizes concepts like classes, objects, inheritance, polymorphism, and interfaces. It provides numerous examples illustrating how to design, implement, and utilize object-oriented principles effectively. Core Topics Covered in the Book Introduction to Java Basics - Java syntax and structure - Data types and variables - Operators and expressions - Input/output operations Control Statements and Looping - Conditional statements (if, switch) - Looping constructs (for, while, do-while) - Nested control structures Methods and Functions - Defining and calling methods - Method overloading - Recursive methods Arrays and Strings - One-dimensional and multi-dimensional arrays - String manipulation and operations - Arrays as data structures Object-Oriented Programming - Classes and objects - Constructors and initialization - Encapsulation and data hiding - 3 Inheritance and polymorphism - Abstract classes and interfaces Advanced Topics - Exception handling - File I/O operations - Graphical User Interface (GUI) development using JavaFX or Swing - Multithreading basics - Lambda expressions and functional programming features Educational Approach and Pedagogical Style Clear and Student-Friendly Explanations Daniel Liang's writing style is approachable and student-centered, breaking down complex topics into manageable parts. The language is straightforward, avoiding unnecessary jargon, which makes learning Java accessible to novices. Hands-On Practice The book encourages active learning through numerous exercises, programming challenges, and mini-projects. These activities are designed to reinforce understanding, develop problem-solving skills, and foster confidence in coding. Real-World Applications Throughout the book, real-world scenarios motivate the learning process. Examples include creating calculators, simple games, and data processing

applications, demonstrating how Java can be used practically. Why Choose Daniel Liang's Introduction to Java Programming 8th Edition? Comprehensive Coverage The book covers a broad spectrum of topics necessary for a solid foundation in Java programming. Whether you are a beginner or looking to solidify your understanding, this resource provides detailed explanations and ample practice opportunities. Updated and Relevant Content With the latest Java features integrated, students learn current best practices, making their skills applicable in modern development environments. 4 Support for Different Learning Styles The inclusion of visuals, step-by-step instructions, and online resources caters to diverse learning preferences, ensuring that students can learn effectively at their own pace. Preparation for Further Study and Careers Learning Java is a stepping stone toward more advanced programming, software development, and computer science careers. This book provides a strong foundation that prepares students for further exploration and specialization. How to Maximize Learning from the Book Follow the Chapter Structure Read each chapter thoroughly, paying close attention to examples and explanations. Complete all exercises to reinforce your understanding. Practice Coding Regularly Hands-on practice is crucial. Write code daily, experiment with modifications, and work on mini-projects. Utilize Supplementary Resources Leverage online tutorials, coding platforms like LeetCode or HackerRank, and instructor support if available. Join Study Groups or Forums Engage with fellow learners through online communities, where you can discuss problems, share solutions, and learn collaboratively. Conclusion Daniel Liang's Introduction to Java Programming, 8th Edition remains a top choice for beginners eager to learn Java. Its comprehensive coverage, clear pedagogical style, and alignment with current Java features make it an ideal resource for foundational learning. Whether you aim to develop desktop applications, delve into Android development, or pursue a career in software engineering, mastering Java through this book provides a solid starting point. By combining theoretical knowledge with practical exercises, the 8th edition equips learners with the skills necessary to succeed in the dynamic world of programming. QuestionAnswer 5 What are the key updates in Daniel Liang's 'Introduction to Java Programming 8th Edition' compared to previous editions? The 8th edition introduces updated content on Java SE 11 features, enhanced coverage of object-oriented programming concepts, new examples and exercises, and

improved explanations of GUI and event-driven programming to align with current industry standards. How does this edition help beginners grasp Java programming fundamentals? This edition uses clear, step-by-step explanations, practical examples, and hands-on projects to build a strong foundation in Java syntax, control structures, classes, and methods, making it accessible for newcomers. Are there online resources available with the 8th edition of Liang's Java book? Yes, the 8th edition comes with supplementary online resources such as code examples, exercises, lecture slides, and a companion website to enhance the learning experience. Does this edition include coverage of modern Java features like lambda expressions and streams? Yes, the 8th edition introduces modern Java features, including lambda expressions, streams, and functional programming concepts, to prepare students for current Java development practices. Is this book suitable for self- study or classroom use? The book is designed to be flexible, making it suitable for both self-study and classroom instruction, with comprehensive explanations, exercises, and programming projects to reinforce learning. What programming concepts does the book emphasize besides syntax? Besides Java syntax, the book emphasizes problem- solving, algorithm development, object-oriented programming principles, data structures, and software design best practices. Are there any instructor resources included with the 8th edition of Liang's Java book? Yes, instructor resources such as lecture slides, test banks, solution manuals, and teaching tips are available to support educators in delivering the course effectively. How does the book address debugging and error handling in Java? The book provides detailed guidance on debugging techniques, exception handling, and best practices for writing reliable, error-resistant Java code. Can this book help prepare students for Java certification exams? Yes, the comprehensive coverage of core Java topics and programming concepts makes it a valuable resource for students preparing for Java certification exams like Oracle's OCP and OCA. Daniel Liang Introduction to Java Programming 8th Edition: An In-Depth Review and Analysis In the evolving landscape of programming education, Daniel Liang's Introduction to Java Programming 8th Edition stands out as a comprehensive and authoritative resource for learners seeking to master Java. Renowned for its clarity, structured approach, and practical orientation, this textbook has cemented its reputation among students, educators, and self-taught programmers alike. As the 8th edition, it introduces Daniel Liang

Introduction To Java Programming 8th Edition 6 new pedagogical enhancements and contemporary examples, reflecting the latest trends and features in Java development. This article offers a detailed review and analysis of this influential book, exploring its content, pedagogical approach, strengths, and potential limitations. --- Overview of the Book Daniel Liang's Introduction to Java Programming 8th Edition is designed to serve as a foundational textbook for introductory programming courses using Java. Its primary goal is to equip learners with the essential concepts, syntax, and problem-solving skills necessary to become proficient Java programmers. The book is structured to cater to a broad audience, from high school students taking their first programming course to college undergraduates and self-learners. Key Features: - Comprehensive coverage of Java fundamentals: Data types, control statements, classes, objects, inheritance, interfaces, exception handling, and more. - Focus on problem-solving and algorithms: Emphasizes logical thinking and algorithm development alongside language syntax. - Practical examples and exercises: Includes numerous real-world scenarios, coding exercises, and projects to reinforce learning. - Updated content: Incorporates recent Java features such as lambda expressions, streams, and enhanced APIs. - Visual aids and diagrams: Uses visual explanations to clarify complex concepts. --- Structure and Organization The book is methodically organized into chapters that gradually build the reader's understanding of Java programming. Core Chapters: 1. Introduction and Basic Programming Concepts Introduces programming principles, development environments, and basic syntax. 2. Control Statements Covers decision-making (if, switch), loops (for, while, do-while), and nested structures. 3. Methods and Parameters Focuses on function design, method overloading, recursion, and scope. 4. Arrays and Strings Explores data collections, string manipulation, and multidimensional arrays. 5. Object-Oriented Programming Delves into classes, objects, constructors, inheritance, and polymorphism. 6. Interfaces and Abstract Classes Explains abstraction, interfaces, and design principles. 7. Exception Handling and File I/O Teaches robust programming practices with error handling and data persistence. 8. Advanced Topics Covers JavaFX for GUI development, multithreading, and networking. The progression from fundamental syntax to advanced topics ensures students develop both theoretical understanding and practical skills. --- Pedagogical Approach and Teaching Methodology Daniel Liang adopts a student-centric teaching philosophy that

balances theoretical explanations with hands-on programming practice. Each chapter typically includes: - Clear Learning Objectives: Outlining what students should grasp after completing the chapter. - Daniel Liang Introduction To Java Programming 8th Edition 7 Explanatory Texts: Concise yet detailed descriptions of concepts. - Annotated Code Examples: Well-commented source code illustrating key ideas. - Self-Assessment Questions: Quizzes and review questions to test comprehension. - Programming Projects: Real-world challenges encouraging application of concepts. - Visual Aids: Diagrams, flowcharts, and screenshots to enhance understanding. This layered approach aids retention and caters to various learning styles, fostering an engaging and effective educational experience. --- Content Depth and Technical Rigor One of the book's notable strengths is its balance between accessibility and technical rigor. It simplifies complex topics without sacrificing depth, making advanced concepts approachable for beginners. Strengths: - Clear Explanations: Abstract concepts like inheritance or polymorphism are broken down into digestible parts. - Incremental Complexity: Each chapter builds upon previous knowledge, ensuring a smooth learning curve. - Practical Emphasis: Focus on writing bug-free, efficient code aligns with industry standards. - Inclusion of Modern Java Features: The latest version of Java is reflected through discussions on lambda expressions, streams, and functional programming paradigms. Potential Limitations: - Some readers with prior programming experience may find the introductory pace slow. - The depth of coverage on advanced topics like multithreading might be limited for learners seeking in-depth specialization. Overall, the content depth is well-suited for foundational learning, with optional advanced sections for further exploration. --- Use of Technology and Supplementary Materials Recognizing the importance of interactive learning, the 8th edition integrates various technological tools. Digital Resources: - Companion Website: Offers downloadable source code, instructional videos, and additional exercises. - IDE Compatibility: The book encourages hands-on practice using popular IDEs such as Eclipse, IntelliJ IDEA, or NetBeans. - Code Snippets and Visuals: High-quality images and code snippets facilitate comprehension. - Online Quizzes and Coding Challenges: Reinforce learning outside the classroom. Classroom Integration: - The book's structure lends itself well to classroom use, with suggested exercises and project ideas. - It supports blended learning

environments, blending textbook reading with online practice. --- Strengths and Contributions to Java Education Daniel Liang's Introduction to Java Programming 8th Edition has several notable strengths that contribute significantly to Java education: - Comprehensive Scope: Covers both beginner and intermediate topics, making it suitable for a broad spectrum of learners. - Clear Pedagogy: Well-organized chapters, precise language, and visual aids enhance Daniel Liang Introduction To Java Programming 8th Edition 8 understanding. - Practical Focus: Emphasizes writing real-world applications, preparing students for industry scenarios. - Updated Content: Reflects recent Java language features and best practices. - Encourages Critical Thinking: Through problem-solving exercises, students learn to analyze and design algorithms. Contributions: - Standardized Java learning for many educational institutions. - Bridges the gap between theoretical concepts and practical programming. - Serves as a stepping stone for students aspiring to delve into Java-based development fields like Android, enterprise applications, or backend systems. --- Potential Criticisms and Areas for Improvement While the book is highly regarded, some areas could benefit from enhancements: - Pace for Advanced Learners: Learners with prior programming experience might find the initial chapters too basic. - Depth in Advanced Topics: Sections on multithreading, design patterns, and concurrency could be expanded for more advanced readers. - Coverage of Modern Development Practices: Integration of version control systems (like Git), unit testing, and continuous integration is limited. - Interactive and Multimedia Content: Incorporating more interactive exercises, videos, or online labs could further enhance engagement. Despite these critiques, the book remains a robust resource, especially when supplemented with additional materials. --- Comparison with Other Java Textbooks In the realm of Java textbooks, Daniel Liang's Introduction to Java Programming maintains a competitive edge owing to its clarity and pedagogical design. When compared to other notable resources: - Head First Java by Kathy Sierra and Bert Bates: Offers an engaging, visually rich approach emphasizing cognitive learning principles. Liang's book is more traditional and comprehensive, suitable for structured courses. - Java: The Complete Reference by Herbert Schildt: Provides in-depth technical details but lacks the pedagogical scaffolding Liang offers. - Core Java by Cay S. Horstmann: Focuses on advanced topics with extensive coverage; Liang's book is more beginner-friendly. Liang's

book is often praised for its balance between depth and accessibility, making it ideal for introductory courses that aim to prepare students for real-world programming. --- Conclusion: Impact and Relevance Daniel Liang's Introduction to Java Programming 8th Edition remains a cornerstone in Java education, blending comprehensive content with pedagogical finesse. Its inclusion of modern Java features, practical exercises, and clear explanations make it a valuable resource for learners at various stages. As Java continues to evolve, textbooks like Liang's will play a crucial role in shaping the next generation of programmers, emphasizing both foundational knowledge and industry-relevant skills. In an era where programming literacy Daniel Liang Introduction To Java Programming 8th Edition 9 is increasingly vital, this textbook provides a solid foundation to foster understanding, confidence, and competence in Java development. While no single resource can cover all facets of programming, Liang's book strikes a commendable balance that can serve as both a learning guide and a reference for years to come. --- In summary, Daniel Liang's Introduction to Java Programming 8th Edition exemplifies a well-rounded, pedagogically sound approach to teaching Java. Its strengths lie in its clarity, structured progression, and practical orientation, making it a recommended choice for educators and learners committed to mastering Java programming fundamentals. Daniel Liang, Introduction to Java Programming, 8th Edition, Java programming textbook, Java fundamentals, Java programming exercises, Java development, Java syntax, Java object-oriented programming, Java coding tutorials, Java learning resources

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up to date essential java programming skills made easy fully updated for java platform standard edition 11 java se 11 java a beginner s guide eighth edition gets you started programming in java right away best selling programming author herb schildt begins with the basics such as how to create compile and run a java program he then moves on to the keywords syntax and constructs that form the core of the java language the book also covers some of java s more advanced features including multithreaded programming generics lambda expressions modules and swing as an added bonus an introduction to jshell java s interactive programming tool is included best of all it s written in the clear crisp uncompromising style that has made schildt the choice of millions worldwide designed for easy learning key skills and concepts chapter opening lists of specific skills covered in the chapter ask the expert q a sections filled with bonus information and helpful tips try this hands on exercises that show you how to apply your skills self tests end of chapter quizzes to reinforce your skills annotated syntax example code with commentary that describes the programming techniques being illustrated

beginning java 8 language features covers essential and advanced features of the java programming language such as the new lambda expressions closures inner classes threads i o

collections garbage collection streams and more author kishori sharan provides over 60 diagrams and 290 complete programs to help you visualize and better understand the topics covered in this book the book starts with a series of chapters on the essential language features provided by java including annotations inner classes reflection and generics these topics are then complemented by details of how to use lambda expressions allowing you to build powerful and efficient java programs the chapter on threads follows this up and discusses everything from the very basic concepts of a thread to the most advanced topics such as synchronizers the fork join framework and atomic variables this book contains unmatched coverage of java i o including nio 2 0 the path api the filevisitor api the watch service and asynchronous file i o with this in depth knowledge your data and file management programs will be able to take advantage of every feature of java s powerful i o framework finally you ll learn how to use the stream api a new exciting addition to java 8 to perform aggregate operations on collections of data elements using functional style programming you ll examine the details of stream processing such as creating streams from different data sources learning the difference between sequential and parallel streams applying the filter map reduce pattern and dealing with optional values

beginning java 8 fundamentals provides a comprehensive approach to learning the java programming language especially the object oriented fundamentals necessary at all levels of java development author kishori sharan provides over 90 diagrams and 240 complete programs to help beginners and intermediate level programmers learn the topics faster starting with basic programming concepts the author walks you through writing your first java program step by step armed with that practical experience you ll be ready to learn the core of the java language the book continues with a series of foundation topics including using data types working with operators and writing statements in java these basics lead onto the heart of the java language object oriented programming by learning topics such as classes objects interfaces and inheritance you ll have a good understanding of java s object oriented model the final collection of topics takes what you ve learned and turns you into a real java programmer you ll see how to take the power of object oriented programming and write programs that can handle errors and exceptions process strings and dates format data

and work with arrays to manipulate data

the definitive java programming guide in java the complete reference eighth edition bestselling programming author herb schildt shows you everything you need to develop compile debug and run java programs updated for java platform standard edition 7 java se 7 this comprehensive volume covers the entire java language including its syntax keywords and fundamental programming principles you ll also find information on key elements of the java api library javabeans servlets applets and swing are examined and real world examples demonstrate java in action in addition new java se 7 features such as try with resources strings in switch type inference with the diamond operator nio 2 and the fork join framework are discussed in detail coverage includes data types and operators control statements classes and objects constructors and methods method overloading and overriding interfaces and packages inheritance exception handling generics autoboxing enumerations annotations the try with resources statement varargs multithreading the i o classes networking the collections framework applets and servlets javabeans awt and swing the concurrent api much much more

a practical introduction to java programming fully revised for long term support release java se 11 thoroughly updated for java platform standard edition 11 this hands on resource shows step by step how to get started programming in java from the very first chapter written by java guru herbert schildt the book starts with the basics such as how to create compile and run a java program from there you will learn essential java keywords syntax and commands java a beginner s guide eighth edition covers the basics and touches on advanced features including multithreaded programming generics lambda expressions and swing enumeration modules and interface methods are also clearly explained this oracle press guide delivers the appropriate mix of theory and practical coding necessary to get you up and running developing java applications in no time clearly explains all of the new java se 11 features features self tests exercises and downloadable code samples written by bestselling author and leading java authority herbert schildt

the contributions in this volume are written by the foremost international researchers and practitioners in the gp arena they examine the similarities and differences between theoretical and empirical results on real world problems the text explores the synergy between theory and practice producing a comprehensive view of the state of the art in gp application topics include finch a system for evolving java practical autoconstructive evolution the rubik cube and gp temporal sequence learning ensemble classifiers adaboost and orthogonal evolution of teams self modifying cartesian gp abstract expression grammar symbolic regression age fitness pareto optimization scalable symbolic regression by continuous evolution symbolic density models gp transforms in linear regression situations protein interactions in a computational evolution system composition of music and financial strategies via gp and evolutionary art using summed multi objective ranks readers will discover large scale real world applications of gp to a variety of problem domains via in depth presentations of the latest and most significant results in gp

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the deitels groundbreaking how to program series offers unparalleled breadth and depth of object oriented programming concepts and intermediate level topics for further study this survey of java programming contains an optional extensive ood uml 2 case study on developing and implementing the software for an automated teller machine the eighth edition of this acclaimed text is now current with the java se 6 updates that have occurred since

the book was last published the late objects version delays coverage of class development until chapter 8 presenting the control structures methods and arrays material in a non object oriented procedural programming context

showing you everything you need to develop compile debug and run java programs this comprehensive volume covers the entire java language including its syntax keywords and fundamental programming principles

software is the essential enabling means for science and the new economy it helps us to create a more reliable flexible and robust society but software often falls short of our expectations current methodologies tools and techniques remain expensive and are not yet sufficiently reliable while many promising approaches have proved to be no more than case by case oriented methods this book contains extensively reviewed papers from the thirteenth international conference on new trends in software methodology tools and techniques somet 14 held in langkawi malaysia in september 2014 the conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business the emphasis has been on human centric software methodologies end user development techniques and emotional reasoning for an optimally harmonized performance between the design tool and the user topics covered include the handling of cognitive issues in software development to adapt it to the user s mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models this book provides an opportunity for the software science community to show where we are today and where the future may take us

java for kids 8th edition is a beginning programming tutorial consisting of over 400 pages explaining in simple easy to follow terms how to build a java application our java for kids programming tutorial has been successfully used in schools and homeschools around the world

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this highly anticipated thoroughly updated revision incorporates exciting changes and updates and is perfect for a second course in java this new edition now begins where a first course leaves off and includes advanced topics such as javabeans enterprise javabeans network programming j2ee features and security all concepts are reinforced through code examples sample programs and exercises take your java programming skills to the next level with this text

updated for java se 8 this book teaches the three most important topics in java programming the language syntax object oriented programming oop and java core libraries this book introduces important programming concepts and is a guide to building real world applications both desktop and web based the coverage is the most comprehensive one can find in a beginner s book

programming is above all problem solving this book will help students thoroughly understand

real world programming problems and solve those problems quickly and efficiently using java s sophisticated design and coding facilities

java 8 in action is a clearly written guide to the new features of java 8 it begins with a practical introduction to lambdas using real world java code next it covers the new streams api and shows how you can use it to make collection based code radically easier to understand and maintain it also explains other major java 8 features including default methods optional completablefuture and the new date and time api this book course is written for programmers familiar with java and basic oo programming resource description page

level absolute beginner in java this book is for programmers who would love to learn java quickly and firmly with hands on approach after completing this book you will have core understanding of the java programming language and java platform the book offers comprehensive coverage of java fundamentals explained in a simplified language supported by examples the book is divided into 29 chapters where each major topic has it s own chapter and each chapter has multiple examples to support and provide clarity on the concept the topics covered in this book are 1 what is java 2 jdk and jre 3 setting path variable 4 complier and interpreter 5 the first program 6 the helloworld program 7 anatomy of helloworld program 8 multiple main methods 9 public class and file name 10 runtime execution 11 alternate helloworld program 12 numeric data types 13 non numeric data types 14 literal and constant 15 escape sequence 16 immutable string 17 stringbuilder class 18 wrapper classes 19 if else 20 switch case 21 for loop 22 while loop 23 break and continue 24 conversion and casting 25 arithmetic and relational operators 26 logical and ternary operators 27 arrays 28 jagged array 29 for each loop basically the book has lot of code examples for clear and deeper understanding of java programming language

if you are interested in learning the java programming language but hesitate to dive into overly dense theoretical resources essentials of the java programming language is the perfect starting point this accessible hands on tutorial employs a learn by doing approach

to introduce you to the basics it starts with a simple program then develops it bit by bit adding new features and explaining important concepts with each subsequent lesson this simple program grows into a general electronic commerce application that illustrates many of the java 2 platforms most important elements you will learn such java programming language essentials as the difference between applications applets and servlets javaserver pages building a user interface that accepts user input reading and writing data to files and databases network communications including rmi and sockets collections serialization packages and jar file format internationalization security fundamentals including cryptographic software essentials of the java programming language ends with an explanation of object oriented programming concepts made far more understandable and relevant as a result of the

for more than 40 years computerworld has been the leading source of technology news and information for it influencers worldwide computerworld s award winning site computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global it media network

introduction to java programming comprehensive 8e features comprehensive coverage ideal for a one two or three semester cs1 course sequence regardless of major students will be able to grasp concepts of problem solving and programming thanks to liang s fundamentals first approach students learn critical problem solving skills and core constructs before object oriented programming liang s approach has been extended to application rich programming examples which go beyond the traditional math based problems found in most texts students are introduced to topics like control statements methods and arrays before learning to create classes later chapters introduce advanced topics including graphical user interface exception handling i o and data structures small simple examples demonstrate concepts and techniques while longer examples are presented in case studies with overall discussions and thorough line by line explanations increased data structures chapters make the eighth edition ideal for a full course on data structures

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## Introduction

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