

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.

Question Answer 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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this work covers the principles of programming and core java features new sections include class inheritance filedialog new naming conventions for awt objects and new coverage of scrollbars programming concepts are presented as objective source code sample run and example review

made java skills easy introduction to java programming comprehensive version 8th 10th best selling edition easy standard special beginner s to expert edition for students and it professional s 2014 this java book is one of worlds best java book author teaches concepts of problem solving and object oriented programming using a fundamentals first approach beginning programmers learn critical problem solving techniques then move on to grasp the key concepts of object oriented gui programming advanced gui and programming using java regardless of major students will be able to grasp concepts of problem solving and programming thanks to authors fundamentals first approach

students learn critical problem solving skills and core constructs before object oriented programming authors 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 tenth edition ideal for a full course on data structures brief contents 1 introduction to computers programs and java 12 elementary programming 23 3 selections 71 4 loops 115 5 methods 155 6 single dimensional arrays 197 7 multidimensional arrays 235 8 objects and classes 263 9 strings and text i o 301 10 thinking in objects 343 11 inheritance and polymorphism 373 12 gui basics 405 13 exception handling 431 14 abstract classes and interfaces 457 15 graphics 497 16 event driven programming 533 17 creating graphical user interfaces 571 18 applets and multimedia 613 19 binary i o 649 20 recursion 677 appendixes a java keywords 707 b the ascii character set 710 c operator precedence chart 712 d java modifiers 714 e special floating point values 716 f number systems 717

a step by step introduction to developing java client and server based applications using rad 8 and was 8 table of contents 1 java basics 2 java on a pc 3 graphical user interfaces 4 more gui and visual editor 5 variables 6 conditional logic 7 application improvements 8 servlets 9 java server pages 10 database access 11 custom tags 12 java server faces appendix a installing a java application on a pc appendix b sql appendix c installing a java application on was

this textbook presents a focused and accessible primer on the fundamentals of java programming with extensive use of illustrative examples and hands on exercises addressing the need to acquire a good working model of objects in order to avoid possible misconceptions the text introduces the core concepts of object oriented programming at any stage supported by the use of contour diagrams each chapter has one or more complete programs to illustrate the various ideas presented and to help readers learn how to write programs on their own chapter summaries and practical exercises also are included to help the reader to review their progress and practice their skills this substantially updated second edition has been expanded with additional exercises and includes new material on bit manipulation and parallel processing topics and features introduces computing concepts in chapter 0 for new programmers adds new chapters on bit manipulation and parallel processing contains exercises at the end of each chapter with selected answers supports both text based and gui based input output objects can be introduced first last or intermixed with other material uses contour diagrams to illustrate objects and recursion discusses oop concepts such as overloading class methods and inheritance introduces string variables and illustrates arrays and

array processing discusses files elementary exception processing and the basics of javadoc this concise and easy to follow textbook guide is ideal for students in an introductory programming course it is also suitable as a self study guide for both practitioners and academics

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

this text is intended for a 1 semester cs1 course sequence the brief version contains the first 18 chapters of the comprehensive version the first 13 chapters are appropriate for preparing the ap computer science exam for courses in java programming a fundamentals first introduction to basic programming concepts and techniques designed to support an introductory programming course introduction to java programming and data structures brief version teaches concepts of problem solving and object orientated programming using a fundamentals first approach beginner programmers learn critical problem solving techniques then move on to grasp the key concepts of object oriented gui programming advanced gui and programming using javafx this course approaches java gui programming using javafx which has replaced swing as the new gui tool for developing cross platform rich internet applications and is simpler to learn and use the 11th edition has been completely revised to enhance clarity and presentation and includes new and expanded content examples and exercises

daniel liang teaches concepts of problem solving and object oriented programming using a fundamentals first approach beginning programmers learn critical problem solving techniques then move on to grasp the key concepts of object oriented gui programming the brief version is comprised of chapters 1 20 of the comprehensive view a book walk through here pearsonhighered.com/showtell/liangjava web

the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the

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for an undergraduate course in object oriented programming or a course in intermediate java programming appealing to programmers and non programmers alike this complete introduction to java shows students how to use this versatile and popular object oriented programming language as a primary tool in many different aspects of their programming work not just for creating programs with graphical content within pages and includes complete descriptions of the fundamental elements of java with step by step instructions on how to compile and run a program well organized clearly written and visually engaging it gives students real hands on experience as it guides them through all of java s functions and capabilities reinforcing their understanding with periodic reviews and helping them see java s everyday applicability through many interesting case

studies emphasizing the importance of good programming style particularly the need to maintain an object's integrity from outside interference it teaches students how to harness the power of java in object oriented programming and enables them to create their own interesting and practical every day applications

this text is intended for a 1 2 or 3 semester cs1 course sequence daniel liang teaches concepts of problem solving and object oriented programming using a fundamentals first approach beginning programmers learn critical problem solving techniques then move on to grasp the key concepts of object oriented gui programming advanced gui and programming using java teaching and learning experience to provide a better teaching and learning experience for both instructors and students this program offers fundamentals first approach basic programming concepts are introduced on control statements loops functions and arrays before object oriented programming is discussed problem driven motivation the examples and exercises throughout the book emphasize problem solving and foster the concept of developing reusable components and using them to create practical projects

get results with c with the hands on c introduction based on proven development experience from an expert practitioner with introduction to c using net you ll learn c object oriented development step by step by constructing a complete net travel agency system seasoned net instructor robert j oberg covers key net database xml and user interface classes plus collections delegates events multithreading attributes and much more

introduction to java programming a clear and practical guide to core java concepts was written to be that perfect bridge born from fifteen years of classroom experience this book meticulously guides you on a journey from your very first line of code to building complete interactive and data driven desktop applications it is designed not just to teach you the syntax of java but to help you think like a programmer the journey within these pages begins with the essentials of the java language covering variables control flow arrays and i o from there we dive deep into the heart of java the object oriented paradigm where you will master the four pillars of oop encapsulation abstraction inheritance and polymorphism as your skills grow the book transitions you from a student to a practitioner you will learn to build robust applications that handle unexpected errors with exception handling perform multiple tasks at once with multi threading and connect to the outside world through networking and database connectivity with jdbc the final section brings your code to life by teaching you to build graphical user interfaces guis with swing where you will manage layouts handle user events and create the kind of professional desktop applications you use every day this comprehensive guide is distinguished by its clear conversational and step by step approach which makes even the most complex topics easy to understand every chapter is filled with practical hands on examples and realworld case studies to show you java in action to solidify your

knowledge you will find extensive end of chapter exercises including multiple choice questions along with short and long answer programming problems the book's logical progression builds your skills from the ground up ensuring you develop a solid foundation for a successful career in software development whether you are a university student a self taught programmer or a professional developer transitioning from another language this book will provide you with the clear practical and in depth knowledge of core java that you need to succeed

this book is intended for a one semester beginner's level course on java programming it includes the new features included in jdk1.7 each of its 16 chapters provide review questions for the readers to self test their learning try it out programs that enable the readers to develop programs for real life problems have also been included introduction to java programming will help budding programmers solidify their foundation on java and move on to higher level topics like swing jdbc servlets etc key features simple presentation with an in depth explanation of concepts up to the required level complete programs provided for each concept new features included in jdk1.7 updated to j2se7 uses the recently introduced printf method defined in console class instead of the classical statement system out.println

this text is intended for a 1 2 or 3 semester cs1 course sequence daniel liang teaches concepts of problem solving and object oriented programming using a fundamentals first approach beginning programmers learn critical problem solving techniques then move on to grasp the key concepts of object oriented gui programming advanced gui and programming using java teaching and learning experience to provide a better teaching and learning experience for both instructors and students this program offers fundamentals first approach basic programming concepts are introduced on control statements loops functions and arrays before object oriented programming is discussed problem driven motivation the examples and exercises throughout the book emphasize problem solving and foster the concept of developing reusable components and using them to create practical projects a superior pedagogical design that fosters student interest key concepts are reinforced with objectives lists introduction and chapter overviews easy to follow examples chapter summaries review questions programming exercises and interactive self tests the most extensive instructor and student support package available

for novice programmers finding an interesting practical java programming reference that doesn't overwhelm them with details and complexity is difficult simply java an introduction to java programming is an easy to follow textbook that guides beginning programmers step by step through the process of learning java the main obstacle to learning object oriented programming is the volume of detail that needs to be learned before even the simplest program can be created this text eliminates extraneous details early on and stresses only concepts students need to know it teaches classes and

objects from the outset and presents programming as extended problem solving making it easier to understand class design and graphical user interfaces are introduced early but most of the detail is postponed until after students have a better grasp of objects classes and inheritance

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Introduction

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