International Edition

C How to Program

Sixth Edition

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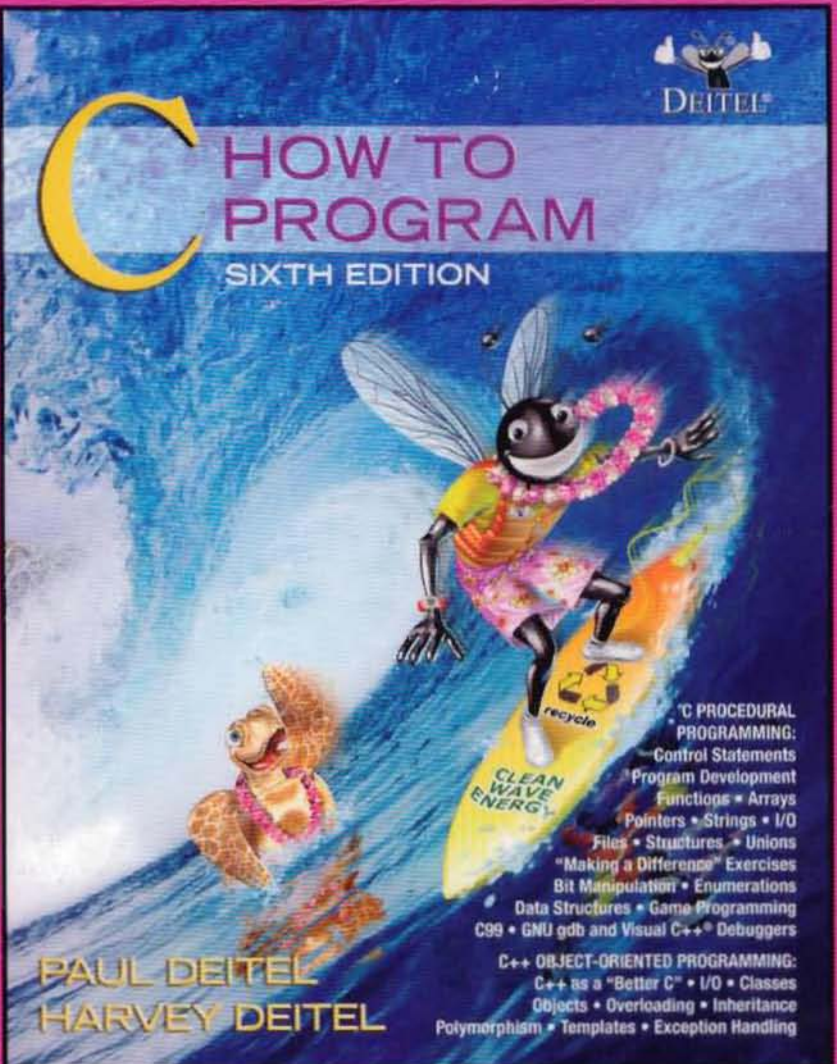
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SIXTH EDITION
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C PROCEDURAL PROGRAMMING:
Control Statements
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C++ as a "Better C" • I/O • Classes
Objects • Overloading • Inheritance
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Preface

Welcome to the C programming language—and to C++, too! This book presents leading-edge computing technologies for students, instructors and software development professionals.

At the heart of the book is the Deitel signature "live-code approach." Concepts are presented in the context of complete working programs, rather than in code snippets. Each code example is immediately followed by one or more sample executions. All the source code is available at `www.deitel.com/books/chtp6/`.

We believe that this book and its support materials will give you an informative, interesting, challenging and entertaining introduction to C.

As you read the book, if you have questions, send an e-mail to `deitel@deitel.com`; we'll respond promptly. For updates on this book and its supporting C and C++ software, and for the latest news on all Deitel publications and services, visit `www.deitel.com`.

New and Updated Features

Here are the updates we've made for *C How to Program, 6/e*:

- *"Making a Difference" Exercises Set.* We encourage you to use computers and the Internet to research and solve problems that really matter. These new exercises are meant to increase awareness of important issues the world is facing. We hope you'll approach them with your own values, politics and beliefs.
- *Tested All Code on Windows and Linux.* We've tested every program (the examples and the exercises) using both Visual C++ 2008 and GNU GCC 4.3. The code examples and exercise code solutions were also tested using Visual Studio 2010 Beta.
- *New Design.* The book has a new interior design that graphically serves to organize, clarify and highlight the information, and enhances the book's pedagogy.
- *Improved Terminology Sections.* We've added page numbers for the defining occurrences of all terms in the terminology lists for easy reference.
- *Updated Coverage of C++ and Object-Oriented Programming.* We updated Chapters 15–24 on object-oriented programming in C++ with material from our just published *C++ How to Program, 7/e*.
- *Titled Programming Exercises.* We've titled all the programming exercises. This helps instructors tune assignments for their classes.
- *New Web Appendices.* Chapters 15–17 from the previous edition are now searchable PDF Appendices E–G, available on the Companion Website (see the access card at the front of the book).