Introduction to Computer Science using Python

By Charles Dierbach

Wiley India, 2015. Softcover. Book Condition: New. First edition. The Book focuses on computational problem solving from Chapter 1, this text provides numerous hands-on exercises and examples, each chapter ending with a significant-size program demonstrating the step-by-step process of program development, testing and debugging. A final chapter includes the history of computing, starting with Charles Babbage, containing over 65 historical images. An end-of-book Python 3 Programmers? Reference is also included for quick lookup of Python details. Preface Acknowledgments About the Author 1 Introduction 1.1 What Is Computer Science? 1.2 Computer Algorithms 1.3 Computer Hardware 1.4 Computer Software 1.5 The Process of Computational Problem Solving 1.6 The Python Programming Language 1.7 A First Program--Calculating the Drake Equation 2 Data and Expressions 2.1 Literals 2.2 Variables and Identifiers 2.3 Operators 2.4 Expressions and Data Types 2.5 Age in Seconds Program 3 Control Structures 3.1 What Is a Control Structure? 3.2 Boolean Expressions (Conditions) 3.3 Selection Control 3.5 Calendar Month Program 4 Lists 4.1 List Structures 4.2 Lists (Sequences) in Python 4.3 Iterating Over Lists (Sequences) in Python 4.4 More on Python Lists 4.5 Calendar Year Program 5 Functions 5.1 Program Routines 5.2 More on Functions 5.3 Credit Card Calculation Program 6 Objects...

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