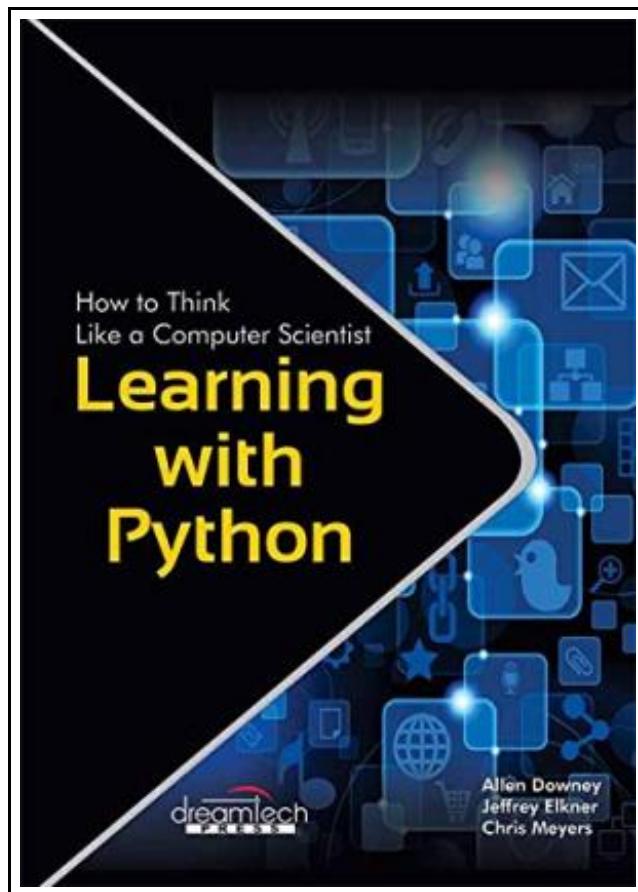# Learning with Python: How to Think Like a Computer Scientist

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Reviews

It is really an remarkable book which i have ever go through. It can be writter in simple terms and not difficult to understand. I am just effortlessly can get a enjoyment of reading a composed pdf.
(Dr. Lily Wunsch II)

LEARNING WITH PYTHON: HOW TO THINK LIKE A COMPUTER SCIENTIST

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Wiley India Pvt. Ltd, 2015. Softcover. Book Condition: New. First edition. The book is designed to introduce the important concepts of Python programming language in detail. The reader will be able to develop and execute the programs in Python. This book will also help the readers to learn about Functions, Recursion, Iterative Statements, Strings, Lists, Tuples, Dictionaries, Files and Exceptions, Classes and Objects, Methods, Inheritance, Linked Lists, Stacks, Queues and Trees. 1.The way of the program The Python programming language What is a program? What is debugging? Formal and natural languages The first program 2. Variables, expressions and statements Values and types Variables Variable names and keywords Statements Evaluating expressions Operators and operands Order of operations Operations on strings Composition Comments 3. Functions Function calls Type conversion Type coercion Math functions Composition Adding new functions Definitions and use Flow of execution Parameters and arguments Variables and parameters are local Stack diagrams Functions with results 4. Conditionals and recursion The modulus operator Boolean expressions Logical operators Conditional execution Alternative execution Chained conditionals Nested conditionals The return statement Recursion Stack diagrams for recursive functions Infinite recursion Keyboard input 5. Fruitful functions Return values Program development Composition Boolean functions More recursion Leap of faith One more example Checking types 6. Iteration Multiple assignment The while statement Tables Two-dimensional tables Encapsulation and generalization More encapsulation Local variables More generalization Functions 7. Strings A compound data type Length Traversal and the for loop String slices String comparison Strings are immutable A find function Looping and counting The string module Character classification 8. Lists List values Accessing elements List length List membership Lists and for loops List operations List slices Lists are mutable List deletion Objects and values Aliasing Cloning lists List parameters Nested lists Matrices Strings and lists 9. Tuples Mutability and tuples Tuple assignment...

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