Introduction to Computation and Programming Using Python

With Application to Understanding Data

second edition

John V. Guttag

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in in a massive open online course MOOC This new edition has been updated for Python 3 reorganized to make it easier to use for courses that cover only a subset of the material and offers additional material including five new chapters Students are introduced to Python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration bisection search and efficient approximation algorithms Although it covers such traditional topics as computational complexity and simple algorithms the book focuses on a wide range of topics not found in most introductory texts including information visualization simulations to model randomness computational techniques to understand data and statistical techniques that inform and misinform as well as two related but relatively advanced topics optimization problems and dynamic programming This edition offers expanded material on statistics and machine learning and new chapters on Frequentist and Bayesian statistics **Sys Admin** ,2004 Data-Driven Security Jay Jacobs,Bob Rudis,2014-02-24 Uncover hidden patterns of data and respond with countermeasures Security professionals need all the tools at their disposal to increase their visibility in order to prevent security breaches and attacks This careful guide explores two of the most powerful data analysis and visualization You ll soon understand how to harness and wield data from collection and storage to management and analysis as well as visualization and presentation Using a hands on approach with real world examples this book shows you how to gather feedback measure the effectiveness of your security methods and make better decisions Everything in this book will have practical application for information security professionals Helps IT and security professionals understand and use data so they can thwart attacks and understand and visualize vulnerabilities in their networks Includes more than a dozen real world examples and hands on exercises that demonstrate how to analyze security data and intelligence and translate that information into visualizations that make plain how to prevent attacks Covers topics such as how to acquire and prepare security data use simple statistical methods to detect malware predict rogue behavior correlate security events and more Written by a team of well known experts in the field of security and data analysis Lock down your networks prevent hacks and thwart malware by improving visibility into the environment all through the power of data and Security Using Data Analysis Visualization and Dashboards *Introduction to Computing and Programming in Python, Student Value Edition* Mark J. Guzdial,Barbara Ericson,2014-03-14 0133591530 9780133591538 Introduction to Computing and Programming in Python Student Value Edition MyProgrammingLab with eText Access Code Card Package Package consists of 013359047X 9780133590470 Introduction to Computing and Programming in Python Student Value Edition 0133590747 9780133590746 MyProgrammingLab with eText Access Code Card for Introduction to Computing and Programming in Python **Announcer** ,2004 **Proceedings of the ... ACM CIKM** ,2003 Books in Print ,1994 **CIKM 2003** Ophir Frieder,2003 **Introduction to Computation and Programming Using Python** John V. Guttag, **Encyclopedia of Genetics, Genomics, Proteomics and Bioinformatics, 8 Volume Set** Michael J. Dunn,Lynn B. Jorde,Peter F. R. Little,Shankar Subramaniam,2005-11-11 Available in print and online this unique reference brings together

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