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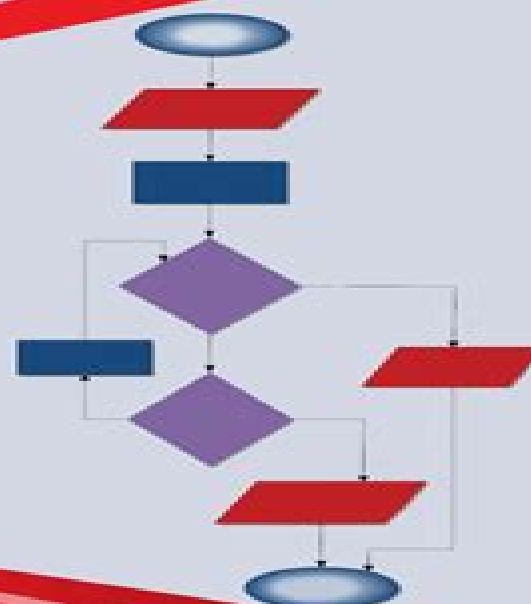## Student's Book

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accurate and balanced coverage of all the computer science topics as prescribed in the CBSE syllabus Code 083 Assuming no previous knowledge of computer science this book discusses key computing concepts to provide invaluable insight into how computers work It prepares students for the world of computing by giving them a solid foundation in programming concepts operating systems problem solving methodology C programming language data representation and computer hardware KEY FEATURES Explains theory in user friendly and easy to approach style Teaches C from scratch knowledge of C is not needed Provides Programming Examples Gives Practical Exercise Provides Answers to Short Questions Gives Practice Questions at the end of each chapter Suitable for Self Study **Discovering Computer Science** Jessen Havill,2020-10-27 Havill s problem driven approach introduces algorithmic concepts in context and motivates students with a wide range of interests and backgrounds Janet Davis Associate Professor and Microsoft Chair of Computer Science Whitman College This book looks really great and takes exactly the approach I think should be used for a CS 1 course I think it really fills a need in the textbook landscape Marie desJardins Dean of the College of Organizational Computational and Information Sciences Simmons University Discovering Computer Science is a refreshing departure from introductory programming texts offering students a much more sincere introduction to the breadth and complexity of this ever growing field James Deverick Senior Lecturer The College of William and Mary This unique introduction to the science of computing guides students through broad and universal approaches to problem solving in a variety of contexts and their ultimate implementation as computer programs Daniel Kaplan DeWitt Wallace Professor Macalester College Discovering Computer Science Interdisciplinary Problems Principles and Python Programming is a problem oriented introduction to computational problem solving and programming in Python appropriate for a first course for computer science majors a more targeted disciplinary computing course or at a slower pace any introductory computer science course for a general audience Realizing that an organization around language features only resonates with a narrow audience this textbook instead connects programming to students prior interests using a range of authentic problems from the natural and social sciences and the digital humanities The presentation begins with an introduction to the problem solving process contextualizing programming as an essential component Then as the book progresses each chapter guides students through solutions to increasingly complex problems using a spiral approach to introduce Python language features The text also places programming in the context of fundamental computer science principles such as abstraction efficiency testing and algorithmic techniques offering glimpses of topics that are traditionally put off until later courses This book contains 30 well developed independent projects that encourage students to explore questions across disciplinary boundaries over 750 homework exercises and 300 integrated reflection questions engage students in problem solving and active reading The accompanying website https www discoveringcs net includes more advanced content solutions to selected exercises sample code and data files and pointers for further exploration **The Complete Book of Colleges, 2017 Edition** Princeton Review,2016-07 The MEGA GUIDE to 1

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hardware and software components of a modern computer system Designed for use in a wide range of introductory level computer science classes it guides readers through the vertical slice of a computer so they can develop an understanding of the machine at various layers of abstraction Early chapters begin with the basics of the C programming language often used in systems programming Other topics explore the architecture of modern computers the inner workings of operating systems and the assembly languages that translate human readable instructions into a binary representation that the computer understands Later chapters explain how to optimize code for various architectures how to implement parallel computing with shared memory and how memory management works in multi core CPUs Accessible and easy to follow the book uses images and hands on exercise to break down complicated topics including code examples that can be modified and executed

Encyclopedia of Computer Science Anthony Ralston,Edwin D. Reilly,David Hemmendinger,2003-08-29 The Encyclopedia of Computer Science is the definitive reference in computer science and technology First published in 1976 it is still the only single volume to cover every major aspect of the field Now in its Fourth Edition this influential work provides an historical timeline highlighting the key breakthroughs in computer science and technology as well as clear and concise explanations of the latest technology and its practical applications Its unique blend of historical perspective current knowledge and predicted future trends has earned it its richly deserved reputation as an unrivalled reference classic What sets the Encyclopedia apart from other reference sources is the comprehensiveness of each of its entries Encompassing far more than mere definitions each article elaborates on a topic giving a remarkable breadth and depth of coverage The visual impact of the volume is enhanced with a 16 page colour insert spotlighting advanced computer applications and computer generated graphics technology In addition the text is enlivened with figures tables diagrams illustrations and photographs With contributions from over 300 international experts the 4th Edition contains over 100 completely new articles ranging from artificial life to computer ethics data mining to Java mobile computing to quantum computing and software safety to the World Wide Web In addition each of the more than 600 articles have been extensively revised expanded and updated to reflect the latest developments in computer science and technology Intelligently and thoughtfully organised all the articles are classified around 9 main themes Hardware Software Computer Systems Information and Data Mathematics of Computing Theory of Computation Methodologies Applications Computing Milieux Within each of these major headings are a wealth of articles that provide the reader with concise yet thorough coverage of the topic In addition cross references are included at the beginning of each article directing the reader immediately to related material In addition the Encyclopedia contains useful appendices including An expanded glossary of major terms in English German Spanish and Russian A revised list of abbreviations and acronyms An updated list of computer science and engineering research journals A list of articles from previous editions not included in the 4th edition A Name Index listing almost 3500 individuals cited in the text A comprehensive General Index with 7000 entries A chronology of significant milestones Computer Society Academic

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