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Preface

friendly tutorial that covers the fundamentals of computer science and the C++ programming language. Rather than focus solely on C++, the book covers important data structures and algorithms, which better equips students to n writing this book, my goal was to create an easy-to-read, clearly-written, create more professional software.

Introduction to Computer Science Using C++ includes hands-on exercises integrated into the flow of the chapters. Realistic, yet imaginative, programs, problems, and interdisciplinary projects are presented throughout the book.

before learning about object-oriented programming. Therefore, the course builds the concept of object-oriented programming. After object-oriented programming a strong foundation of structured programming before introducing students to This book is based on the belief that students should master the basics of C++ is introduced, students will use ready-made classes to simplify work with strings, arrays, stacks, and queues.

Introduction to Computer Science Using C++ is designed for use in a variety of one-semester (18-week), and two-semester courses. The order of the material alcourses. The instructor's manual includes course schedules for 6-week, 12-week, lows optional coverage of the advanced topics.

This book is also well-suited for an Advanced Placement Computer Science course. The classes used in this book are compatible with the classes used on the

COMPILERS AND SYSTEMS SUPPORTED

This book was written with a focus on programming fundamentals, rather than under MS-DOS, Windows, and the MacOS. This book has been tested with major specific features of any operating system. C++ is designed to be a portable language. The programs in the exercises of this book will compile successfully compilers and minor inconsistencies are noted in the instructor's manual.

A COMPLETE INSTRUCTIONAL PACKAGE

Introduction to Computer Science Using C++ is a complete instructional package. In addition to this student textbook, there are other components to supplement the text and provide additional reinforcement. These components include:

- A consumable student workbook with additional questions, problems, coding and debugging exercises, and vocabulary reinforcement.
- A template disk that includes the source code and data files necessary to complete the exercises in the textbook.
- A regularly-updated Internet Web site at http://www.ProgramCPP.com devoted entirely to supplementing this book and providing up-to-date information, additional case studies, and links to important resources on the