

AP® Computer Science A

About the Advanced Placement Program® (AP®)

The Advanced Placement Program® has enabled millions of students to take college-level courses and earn college credit, advanced placement, or both, while still in high school. AP Exams are given each year in May. Students who earn a qualifying score on an AP Exam are typically eligible, in college, to receive credit, placement into advanced courses, or both. Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty. They work together to develop AP courses and exams, set scoring standards, and score the exams. College faculty review every AP teacher's course syllabus.

AP Computer Science Program

There are two computer science offerings, and students can take either course in any order or concurrently:

- AP Computer Science A focuses on computing skills related to programming in Java.
- AP Computer Science Principles provides students with a broad introduction to computer science and how it relates to other fields.

The courses underscore the importance of communicating solutions appropriately and in ways that are relevant to current societal needs. AP Computer Science courses can help address traditional issues of equity, access, and broadening participation in computing while providing a strong and engaging introduction to fundamental areas of the discipline.

AP Computer Science A Course Overview

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

PREREQUISITES

It is recommended that students have successfully completed a first-year high school algebra course with a strong foundation of basic linear functions, composition of functions, and problem-solving strategies that require multiple approaches and collaborative efforts. In addition, students should be able to use a Cartesian (x , y) coordinate system to represent points on a plane. It is important that students and their advisers understand that any significant computer science course builds upon a foundation of mathematical reasoning that should be acquired before attempting such a course.

Prior computer science experience is not required to take this course.

COMPUTER LANGUAGE

The course requires that solutions of problems be written in the Java programming language. Because the Java programming language is extensive, the AP Computer Science A Exam covers a subset of Java.

LAB REQUIREMENT

The AP Computer Science A course must include a minimum of 20 hours of hands-on, structured lab experiences to engage students in individual or group problem solving. Each course includes a substantial lab component in which students design solutions to problems, express their solutions precisely, test their solutions, identify and correct errors, and compare possible solutions. The College Board has developed

several labs that are aligned to the course framework that fulfill the 20-hour lab requirement.

AP Computer Science A Course Content

The course content is organized into ten commonly taught units:

- Unit 1: Primitive Types
- Unit 2: Using Objects
- Unit 3: Boolean Expressions and `if` Statements
- Unit 4: Iteration
- Unit 5: Writing Classes
- Unit 6: Array
- Unit 7: ArrayList
- Unit 8: 2D Array
- Unit 9: Inheritance
- Unit 10: Recursion

The following big ideas serve as the foundation of the course, enabling students to create meaningful connections among concepts:

- **Modularity:** Modularity in object-oriented programming allows us to use abstraction to break complex programs down into individual classes and methods.
- **Variables:** Variables create data abstractions, as they can represent a set of possible values or a group of related values.
- **Control:** Doing things in order, making decisions, and doing the same process multiple times are represented in code by using control structures.
- **Impact of Computing:** Computers and computing have revolutionized our lives. To use computing safely and responsibly, we need to be aware of privacy, security, and ethical issues.

AP Computer Science A Computational Thinking Practices

The following computational thinking practices describe what skills students should develop during the course:

- **Program Design and Algorithm Development:** Determine required code segments to produce a given output.
- **Code Logic:** Determine the output, value, or result of given program code given initial values.
- **Code Implementation:** Write and implement program code.
- **Code Testing:** Analyze program code for correctness, equivalence, and errors.
- **Documentation:** Describe the behavior and conditions that produce identified results in a program.

Advanced Placement Computer Science Study Guide

John W. Crum

Advanced Placement Computer Science Study Guide:

Java Concepts Frances P. Trees,Cay S. Horstmann,2007-10-16 A study guide for AP computer science studies in Java Compatible with Java 5 and 6 the Java Concepts Advanced Placement Computer Science Study Guide is a companion piece to the main text Java Concepts for AP Computer Science 5e It moves students forward in their studies of Java while presenting and reinforcing skills and knowledge that is tested on the AP Computer Science A and AB examinations The study manual supports the primary textbook by sharing examples and explanations of Java Practice questions and tips are also provided to help users prepare for the computer science exam *Addison-Wesley's Review for the Computer Science AP Exam in C++* Susan B. Horwitz,1998 This complete test guide for AP Computer Science Exam in C features four comprehensive sample exams to prepare for the exam day covers a full range of C topics includes an extensive glossary that provides quick reference and contains test taking hints that pinpoint the important aspects of the questions included on the exam

Cracking the AP Biology Exam Kim Magloire,Princeton Review (Firm),2004 This updated series by Princeton Review helps students pass the challenging Advance Placement Test with targeted study for each exam of the series [Java Programming](#) Steven P Warr,2011-01-31 Learning a programming language on you own can be daunting Programming books can be confusing and incomplete Program listings often do not work until you have mucked around using trial and error I like to use books as reference after I have read them Invariably none of the books have the particular information that I want nor do they have references to other information sources Java Programming What Do You Want To Do changes all that Inside there are clear instructions on how to do what you want to do Basic structures graphics programming with AWT and NetBeans Advanced structures test preparation networking cell phone programming and much more [Cracking the Advanced Placement Spanish, 2004-2005](#) Princeton Review (Firm),2004 The fiercer the competition to get into college the more schools require that students prove themselves in other ways than SAT scores and grade point averages The more expensive college educations become the more students take advantage of the opportunity to test out of first year college courses Includes 2 sample tests with full explanations for all answers The Princeton Review s proven score raising skills and techniques Complete subject review of all the material likely to show up on the AP Spanish exam [Cracking the Advanced Placement Computer Science A Exam](#) Princeton Review (Firm),2019 Ace the 2020 AP Computer Science A Exam with this comprehensive study guide including 2 full length practice tests thorough content reviews targeted strategies for every section of the exam and access to online extras Worldcat [AP® Computer Science Principles Crash Course, 2nd Ed., Book + Online](#) Jacqueline Corricelli,2021-03-05 Study only what you need to know REA s Crash Course targets just what s on the test so you can make the most of your study time Get practical test taking tips boost your score with advice from expert AP teachers who know the test from the inside out Build confidence with our online practice exam balanced to include every type of question you can expect on the actual exam so you ll be prepared on test day Book jacket [AP® Computer Science](#)

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Ms. Corricelli teaches AP Computer Science Principles at Conard High School West Hartford, Connecticut and serves as an independent consultant to the College Board for the AP Computer Science Principles Course. [Resources in Education](#), 1990 *The Papers of the ... SIGCSE Technical Symposium on Computer Science Education*, 1987 **How to Prepare for the AP Computer Science Exam** Roselyn Teukolsky, 2003-08-01 This new Java edition of the AP Computer Science manual presents four full length AP Computer Science practice exams with questions answered and explained. Two are A exams, two are AB exams and all four are modeled on the actual exam. A general subject review covers all topics tested on the exam including Java language features, classes and objects, inheritance and polymorphism, program design and analysis, one and two dimensional arrays, recursion, linked lists, stacks, queues, priority queues, trees, collections and sorting and searching. A

final chapter describes the Marine Biology Simulation Case Study *Advanced Placement Examination in American History* John W. Crum,1990 **AP Computer Science Exam-Study Guide for C++** Todd Knowlton,1998-09-02 Prepare your students to pass the Advanced Placement AP Computer Science Exam with this study guide from renowned author Todd Knowlton This title covers the standards and fundamentals as specified by the AP exam program and provides thorough coverage of topics covered in the Advancement Placement Classes This flexible study guide accompanies any title in preparation for the AP Exam **Addison-Wesley's Review for the AP Computer Science Exam in Java** Susan

Horwitz,2003-08 A study guide for the Advanced Placement Computer Science exam in Java featuring topic review multiple choice practice questions test taking tips four sample tests and a glossary *Advanced Placement Examinations in Mathematics* Sanderson M. Smith,Frank W. Griffin,1990

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This book delves into Advanced Placement Computer Science Study Guide. Advanced Placement Computer Science Study Guide is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Advanced Placement Computer Science Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Advanced Placement Computer Science Study Guide
 - Chapter 2: Essential Elements of Advanced Placement Computer Science Study Guide
 - Chapter 3: Advanced Placement Computer Science Study Guide in Everyday Life
 - Chapter 4: Advanced Placement Computer Science Study Guide in Specific Contexts
 - Chapter 5: Conclusion
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3. In chapter 2, this book will delve into the foundational concepts of Advanced Placement Computer Science Study Guide. This chapter will elucidate the essential principles that need to be understood to grasp Advanced Placement Computer Science Study Guide in its entirety.
4. In chapter 3, this book will examine the practical applications of Advanced Placement Computer Science Study Guide in daily life. This chapter will showcase real-world examples of how Advanced Placement Computer Science Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Advanced Placement Computer Science Study Guide in specific contexts. This chapter will explore how Advanced Placement Computer Science Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Advanced Placement Computer Science Study Guide. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Advanced Placement Computer Science Study Guide.

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