

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 advisors 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

Wolfgang Guggemos



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

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,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 and priority queues trees collections and sorting and searching A

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