



**AP Computer Science A
Summer Assignment
School Year 2019-2020**

Objective of the summer assignment:

To review the ethical and social implications of computer use prior to doing any work in the course. Students will become familiar with real world guidelines for working with computers.

Resources/Materials necessary for the summer assignment:

Worksheet and internet access.

Estimated length of time to complete:

6 hours

Grade: Classwork assignment grade worth 20 points. Classwork worth 10% of quarter grade.

Due Date: Beginning of second week of class (3rd class session).

Date of assessment: Quiz at end of second week of class (4th class session).

Questions? Contact: Rebecca Cruley rdcruley@fcps.edu

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Ethical and Social Implications of Computer Use Assignment

This assignment will be collected at the beginning of the second week of school. There will be a quiz on the classroom ethics listed on the back of this page at the end of the second week.

- I. (1 pt) Define the word “ethics” in your own words.

- II. (5 pts) Review the 8 General Moral Imperatives according to the [Association for Computing Machinery \(ACM\) Code of Ethics](http://www.acm.org/about/code-of-ethics/#sect1) (<http://www.acm.org/about/code-of-ethics/#sect1>).
Also review the [10 Commandments of Computer Ethics according to Computer Professionals for Social Responsibility](http://cpsr.org/issues/ethics/cei/) (CPSR) (<http://cpsr.org/issues/ethics/cei/>).
Compare and contrast the ACM code of ethics and CPSR’s 10 commandments? Where are they similar? Are there any differences? You could use a chart or Venn diagram to display your information.

- III. (3 pts each) Complete all 3:
 1. **COPYRIGHT AND INTELLECTUAL LAW.**
Review this [CENDI document](http://cendi.gov/publications/09-1FAQ_OpenSourceSoftware_FINAL_110109.pdf) (http://cendi.gov/publications/09-1FAQ_OpenSourceSoftware_FINAL_110109.pdf) to answer the questions:
 - Is computer software subject to copyright protection?
 - Is it possible to protect computer software under other types of intellectual property law?

 2. **CYBER STALKING, HARRASSING, AND BULLYING.**
View the [National Stop Bullying’s](https://www.stopbullying.gov/) website (<https://www.stopbullying.gov/>) and the [Cyberbullying Research Center’s](https://cyberbullying.org/cyberbullying-laws) website (<https://cyberbullying.org/cyberbullying-laws>).
 - What qualifies as cyber stalking? Harrassing with a computer? Cyberbullying?
 - How does VA handle these crimes? What are the penalties?

 3. **HACKING.** Go to the [National Cyber Security Awareness Month information page](https://www.fbi.gov/news/stories/copy_of_national-cyber-security-awareness-month/national-cyber-security-awareness-month) (https://www.fbi.gov/news/stories/copy_of_national-cyber-security-awareness-month/national-cyber-security-awareness-month) on the FBI.
 - What month is cyber security awareness month?
 - What are 3 types of attacks by cyber criminals?
 - What are 3 tips to protect the security of your computer or your private information?

- IV. (5 points) Do **ONE** of the following:
 1. **COPYRIGHT AND INTELLECTUAL LAW.** Go to the [Secure Your Trademark website](https://secureyourtrademark.com/blog/71-notorious-patent-trademark-and-copyright-infringement-cases/) (<https://secureyourtrademark.com/blog/71-notorious-patent-trademark-and-copyright-infringement-cases/>) and scroll down to the “Nine High-Profile Patent Infringement Cases from the Tech Industry” summary. Summarize one of the cases. Who were the two parties in the case? What was the case about? What was the outcome of the case?

 2. **CYBER STALKING, HARRASSING, AND BULLYING.** Research a cyber stalking, harrassing by computer, or cyber bullying case within the last 5 years. Summarize one of the cases. What is the date of the case? Who was involved? How was a computer used to harm? What was the outcome?

 3. **HACKING.** Go to the [FBI’s Cyber Crimes’ News page](https://www.fbi.gov/investigate/cyber/news) (<https://www.fbi.gov/investigate/cyber/news>) or to the [Discovery Channe’s](https://curiosity.com/topics/the-secret-world-of-computer-hackers-CkuyrJbi/) 10 Famous Hackers and Hacks (<https://curiosity.com/topics/the-secret-world-of-computer-hackers-CkuyrJbi/>) and select one of the crimes listed. Summarize one of the crimes. What is the date of the case? Who was attacked and what type of attack was it? What was the outcome?

Review the APCS classroom ethics listed on the back of this page.

AP Computer Science Classroom Ethics/Policies

As writing your own code is the only way to truly learn the material in this class, incidents of plagiarism will be taken very seriously. Software to detect plagiarism is routinely used for submitted assignments. Please review the following lists so that there is no confusion of what is considered acceptable. If any situations arise that are not addressed below, please contact the teacher for guidance.

What is **OK**:

- Having a classmate look at **your** code in order to help you locate an error.
- Discussing a programming assignment with classmates in spoken English (or some other spoken, non-programming language).
- Discussing a programming assignment with classmates using diagrams or pseudocode on paper, whiteboards, etc.
- Using a code snippet from one of your own old programs in a current program.
- Using code from the course textbook, our Blackboard page, or otherwise directly given to you by the teacher.
- Using the Internet to search information that is NOT directly related to the solution of an assignment.
- Obtaining help from a parent, guardian, or tutor, provided that they are not completing assignments for you.
- Sharing work in group assignments ONLY.

What is **NOT OK**:

- Looking at a classmate's code in order to determine an error in your own program.
- Using code and/or materials from a student that previously took AP Computer Science.
- Dictating or otherwise directly giving code to a classmate.
- Having code dictated or otherwise given to you by any person other than the teacher.
- Being unable to describe in English the functionality of any code that you intend to submit.
- Looking at a classmate's code and then basing your solution on it.
- Using code you found on the Internet as your complete solution.
- Obtaining a copy of a classmate's code and then making minor changes (variable names, white space, comments, outputs, method ordering) in an attempt to make it look like a different program.
- Possessing copies of another student's code (including former students), even if doing so is for reference purposes only, and you have no intention of submitting their work as your own.
- Resubmitting a program you completed in a prior class as new work, even if minor changes were made.
- Obtaining solutions from an unauthorized source.
- Publishing or otherwise sharing your code by any means, even after you complete the course.
- Working as part of a team on individual assignments. This is not the same as getting quick help from a classmate.
- Sharing login credentials.