

Lab Exercise 9 – Computer Ethics: Intellectual Property Rights and Privacy  
*Computer Science 2334*

**Due by: Friday, 28 April 2017, 11:59 pm**

***Objectives:***

1. To be able to analyze ethical situations.
2. To be able to make ethical judgments based on intellectual property concepts, the consequences of different approaches to intellectual property, and existing legal instruments that protect intellectual property.
3. To be able to make ethical judgments based on privacy issues, the consequences of different approaches to privacy, and laws regarding privacy.
4. To demonstrate your understanding of intellectual property, privacy, and computer ethics through the analysis of case studies.

***Instructions:***

Read the case study included in this lab exercise. Develop and write a response of a few sentences for the case study that addresses the exercise posed at the end of the case study scenario.

You should consider the principles of a professional organization relevant to CS when answering these questions. As discussed in class, it is your responsibility to locate a code of ethics from a relevant professional organization to use in the completion of this lab.

*Use only the space provided for your response.*

You should spend approximately 15-20 minutes on this scenario.

Once you have completed the exercises in this document, you will submit this lab via D2L for grading.

At the end of lab, the entire class will discuss this scenario and the various responses developed by the students.

The scenario in this lab exercise was dreamed up by Prof. Hougen. Any similarities to any persons, living or dead, are purely coincidental.

## Scenario. (Hypothetical)

Cliff is fresh out of college and excited about his first software development job – writing smartphone apps for Ananam Software. Ananam is preparing a new social app called “ShareItIn” that will help friends stay connected all day long. In particular, his job is to write the part of the app that allows users to find nearby bars and parties using a database populated by local businesses that pay to be listed and ShareItIn users who simply want to connect with their friends.

One day, working alongside his more experienced partner Patricia, she asks him why his code is making a call to the OS to turn off location services. Cliff is a bit puzzled. He knows that keeping location services running all the time will drain the battery faster than turning it off between uses, unless it needs to be used frequently. “Uh, to save the battery?”

Patricia rolls her eyes. “But then we just have to turn it on again. It is on all the time, of course.”

“Uh, of course?”

“Yes, of course. Haven’t you looked at the startup code?”

“No, um, not closely.”

“Well, look. It starts up location services first thing. I think it keeps a log file which maybe gets uploaded to our servers or something like that.”

“Oh. Why?”

“I don’t really know. My guess is that the businesses model isn’t to sell a bit of access to a few local businesses. I think it is to collect detailed customer profiles that can be sold along with contact information to major companies. I heard that Gene’s group mines user chats.”

“Oh.” Cliff removes that line of code and goes back to writing code to find bars. He feels like he could use a drink about now but he has a long day ahead of him so he concentrates on his work.

At the end of the day, Cliff passes his supervisor Donna in the hall. She asks him how his day went.

“Fine,” Cliff tells her. “Good, I mean. Couldn’t be better.”

## Exercises.

1. Find at least *two* distinct ethical principles from a professional code of ethics that are relevant to this scenario. List each principle, **give its source**, and *explain* why you think it is relevant.
2. For each principle, say whether you think Cliff abided by (that is, followed) the principle you listed and *explain* how you came to that conclusion.
3. Give at least one likely motivation for Cliff’s actions and *explain* how you concluded that was a likely motivation.
4. Give at least one entity (person or group of people) who would be likely to benefit from Cliff’s actions and *explain* how you concluded that entity would be likely to benefit.
5. Give at least one entity (person or group of people) who would be likely to be harmed by Cliff’s actions and *explain* how you concluded that entity would be likely to be harmed.
6. List at least *two* ethical-decision-making problems, each of which is likely to have contributed to at least one of Cliff’s decisions and *explain* how you concluded that each was a likely problem.
7. List *two* ethical-decision-making strategies that Cliff could employ to improve his ethical decision making and *explain* how he might employ those strategies in this situation.

Response:

