How do you figure out what to do when faced with a “situation”?

Apply the brainstorming and analysis methodology to each scenario:
- What will you do in each scenario?
- Are you acting in an ethical manner?
- Are you applying a code of professional ethics?
Analysis of Scenarios: Brainstorming phase

Methodology:
- Brainstorming phase:
  - List all the people and organizations affected (the stakeholders)
  - List risks, issues, problems, and consequences
  - List benefits. Identify who gets each benefit
  - In cases where there is no simple yes or no decision, but rather one has to choose some action, list possible actions

Scenarios: Analysis Phase

Methodology:
- Analysis phase
  - Identify responsibilities of the decision maker
  - Identify rights of stakeholders
  - Consider the impact of the options on the stakeholders (consequences, risks, benefits, harms, costs)
  - Categorize each potential action as ethically obligatory, prohibited, or acceptable
  - When there are multiple options, select one, considering the ethical merits of each, courtesy to others, practicality, self-interest, personal preferences, etc.
Scenarios

Scenario:

● Your company has 25 licenses for a computer program, but you (the system administrator) discover that it has been copied onto 80 computers.

Scenarios

Scenario:

● You work for the IRS, the Social Security Administration, a movie-rental company, or an Internet service provider. Someone asks you to get a copy of records about a particular person. He will pay you $500.
Scenarios

Scenario:
- You have a small consulting business. The CyberStuff company plans to buy software to run a new collaborative content-sharing Web site. CyberStuff wants to hire you to evaluate bids from vendors. Your close relative who lives with you (for example, your significant other) works for NetWorkx and did most of the work in writing the bid that NetWorkx plans to submit. You read the bid while your significant other (SO) was working on it and you think it is excellent. Do you tell CyberStuff about your SO’s connection with NetWorkx? Is there a potential conflict of interest situation?

Scenarios

Scenario 1:
- Your company is developing a free e-mail service that will include targeted advertising based on the content of the e-mail messages (similar to Google’s Gmail). You are part of the team designing the system. What are your ethical responsibilities?
Scenarios

Scenario 2:

- A team of programmers is developing a communications system for firefighters to use when fighting a fire. Firefighters will be able to communicate with each other, with supervisors near the scene, and with other emergency personnel. The programmers will test the system in a field near the company office.

Scenarios

Scenario 3:

- You are the computer system administrator for a mid-sized company. You can monitor the company network from home, and you frequently work from home. Your friend, a college student, is visiting for a week. She asks to use your computer to check her e-mail (you may not be present during the entire time that she is using the computer). Sure, you say. You are being a gracious host. What is the ethical problem? How about if she asks you to set up an account for her to use while she visits?
Scenarios

Scenario 4:
- You are working on a mission critical real-time system (for example, avionics system on the Boeing Dreamliner) and the project has to be completed tomorrow. As of today, your program does not meet the timing deadline of the application. You discover that by changing a data structure used in the code, your program will now faster and meet the timing deadline. However, you do not have enough time to debug and test the code.

Scenarios

Scenario 5:
- Suppose you are a member of a team working on a computer-controlled crash avoidance system for automobiles. You think the system has a flaw that could endanger people. The project manager does not seem concerned and expects to announce completion of the project soon. Do you have an ethical obligation to do something?
Scenarios

Scenario 6:

- You are a relatively junior programmer working on modules that collect data from loan application forms and convert them to formats required by the parts of the program that evaluate the applications. You find that some demographic data are missing from some forms, particularly race and age. What should your program do? What should you do?