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Assignment 3

Question 1:

- Advantage: ability to search and analyze large amount of data quickly and effectively
- Disadvantage: data can be easily modified

Question 2:

Scenario: There was a bank robbery in downtown last night. When the police came and gathered information, they got a video tape before it got hacked, a server log when thefts tried to over-control all cameras at the bank. Moreover, they didn't leave any fingerprints but fortunately they didn't cover their footprints. From a server log, they gather hackers' id to trace back their address. They also examine the video tape in front of the bank to know there is a theft with a significant, unique tattoo on his forehead (maybe a gang's tattoo) and from the footprints at the scene, police know there are 4 thefts in total. They get to the address, arrest a hacker with the same tattoo on his leg and also gather a private communicating server they use to design plan. Using tracing technology, police arrest all thefts easily.

Digital forensics:

- a video tape: class characteristic because after examination, it shows police a gang's tattoo
- a server log: individual characteristic because it leads to hacker's house
- footprints: class characteristic because it gives information about number of thefts
- communicating server at the hacker's house: individual characteristic because it helps police trace to thefts

Question 3:

Abductive reasoning:

- Because Anne Adams just got transferred and she got higher paid offer than her position, she might give Nadir Toy Corp. the information about a new toy.

Deductive reasoning:

- Because Anne Adams worked on the project has shared some characteristics with the newly released toy at Acme Toy company, therefore she had full access with the information at Acme Toy company. And in Nadir Toy Corp, there is no one have more information about that toy more than Anne Adams. So we can conclude Anne Adams give data to Nadir Toy Corp.

Inductive reasoning:

- Anne Adams has a high paid position at Nadir Toy Corp (vice-president), so she is an excellent designer and she has a lot of new ideas and designs. Therefore this may be her new design, but because she has worked on the project at Acme Toy so she has common design when create a new one, not by using Acme Toy project information.

Question 4:

Report title: CoalFire CMP video report

Report URL: <http://www.adfmedia.org/files/CoalfireCMPvideosReport.pdf>

Question 5:

Advantages: The first advantage is time-consuming. We can speed up examination using phone's interface. The second advantage is space-consuming. Imaging consumes a lot of space to store copies of information, but it's not a problem using phone's interface solution.

Disadvantage: Although imaging solution uses up a lot of space, but we can state that information won't be lost or damaged. The disadvantage of using phone's interface is the phone can't be broken or lost, therefore losing all data.