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**Question 1:****Written Exercises**

Provide 3 references to computer security that you find in the non-technical space. Provide or describe what is said. For each, say how it relates to any of the CIA: confidentiality, integrity, availability. For each, say how it relates to any of the STRIDE categories of threats.

- a. Examples might be fiction, tv shows, movies, magazines, blogs, even news.
- b. The reference may be technically correct or incorrect, or maybe you don't know which.
- c. Include the source – movie name and year; tv name, year, seasons#, episode#; URL, etc. If possible, give a link. A link to an entire movie is NOT useful although your graders would probably enjoy watching all of those movies.

*Response:*

1) Target Data Breach

- a. In late 2013 the credit card and personal data of 110 Million customers was stolen.
- b. How does this relate?

CIA: The confidentiality of this data was compromised when it was made available to unauthorized people.

STRIDE: While this was and made possible via tampering, it is an information disclosure at the heart of this event.

- c. Wikipedia: [Target Data breach](#)

2) WannaCry

- a. The EternalBlue exploit allowed WannaCry to infect unpatched older machines to encrypt the system's data rendering it inaccessible to the user until they paid the ransom.
- b. How does this relate?

CIA: This is largely an integrity issue and the only way to save yourself from permanent loss is to pay the ransom.

STRIDE: WannaCry is threat of data tampering.

- c. Wikipedia: [WannaCry](#)

3) Operation Payback

- a. A group of hackers in response to events they were not happy with recent events used a stress testing application to take control of a voluntary botnet and conduct a series of coordinated DDoS attacks.
- b. How does this relate?

CIA: This attack directly hinders the availability of services provided by the victims of these attacks.

STRIDE: This is a was a Threat to denial of service.

- c. Wikipedia: [Operation Payback](#)

## Question 2:

Draw an attack tree that describes a cheating student obtaining the answers to another student's homework. Include all paths you can think of. You may do this electronically, or draw on paper then take a picture with your phone.

*Response:* Homework cheating attack tree

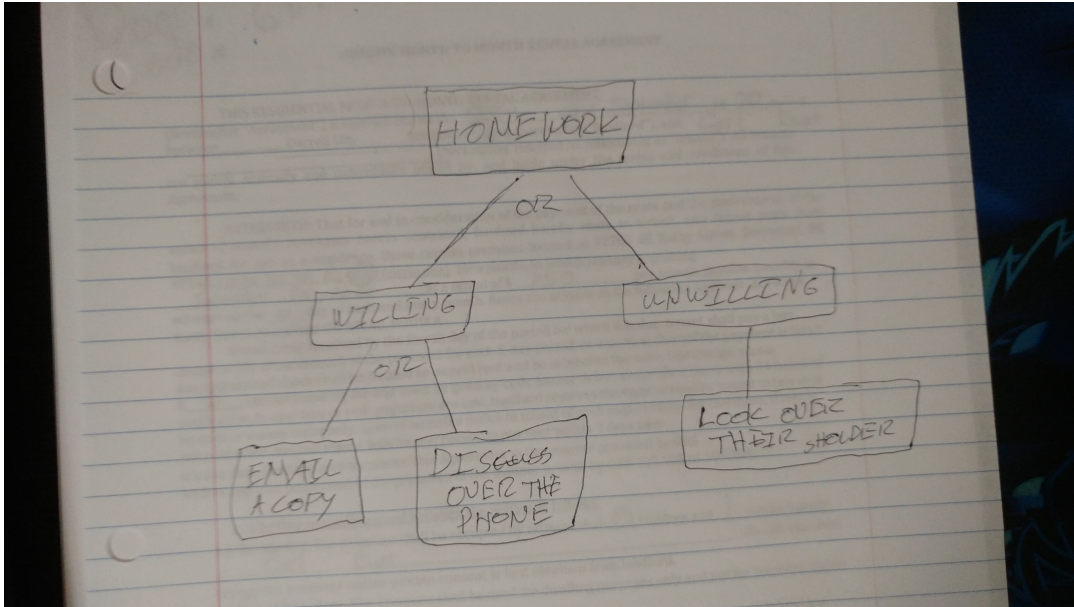


Figure 1: Homework attack tree