Lecture 4: Attacks Part 2

Date: October 4, 2013   *Homework Due*: Oct. 4 at 5:00pm (today)

1. What is malware?
    a. Trojan horse, replicating Trojan horse
        i. The game of *animal*
        ii. Thompson's Trojan horse
    b. Computer viruses
        i. How they work
        ii. Stealth viruses
        iii. Polymorphic viruses
    c. Computer worm
        i. How they work
        ii. CHRISTMA EXEC worm
        iii. Internet worm
        iv. Other worms
    d. Bacteria, logic bomb
2. Example: Internet worm
3. Example: Melissa macro virus
4. Discussion question

Discussion Topic

A professor wants his computer security class to learn about computer viruses. So he creates an exercise for them to write one and test it out. They will do this on a network that is *not* connected to any other network (and, especially, not to the Internet).

Do you think having students write viruses is a reasonable way to have them learn about computer viruses?