## Computer and Network Security

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## 1 Administrivia

Announcements		
Assignment		
Read: Chapter 7.		
Turn in answers to these questions: 6, 9, 23.		
From Last Time		
Privacy.		
Coming Up		
Computer reliability.		

## 2 Chapter Summary

1. "The most secure computer is one that's kept completely unplugged, locked away in a closet." It is, however, not very useful.

3.	Univ	versity of Calgary CS courses:	
	(a)	Virus writing (2003).	
	(b)	Spam, spyware writing (2005).	
	Labs	s will be run on a "closed" network. Ethics?	
4.	Viru	ses, worms, and trojans.	
	(a)	What is a buffer overflow attack?	
	(b)	The Nov. 2, 1988 Internet worm.	
	(c)	Trojan horses: nefarious code hidden within a useful program. Example: spyware distributed with Kazaa clients?	
	(d)	Zombie armies used to launch DOS attacks.	
		What is a DOS attack?	
	(e)	Defense: authorization and authentication systems. (?)	
		Weaknesses of password systems.	
5.	The	hacker ethic:	
	(a)	Unlimited and total access to computers.	
	(b)	All information should be free.	
	(c)	Mistrust authority.	
	(d)	Hackers should be judged by their skill in hacking, not earned degrees, etc.	
	(e)	Art and beauty can be created on a computer.	
2			

2. billg e-mail forgery.

(f) Computers can change your life for the better.

The will of the hacker is to improve the situation; there is no malicious intent.

- 6. System security "tools:" Crack, Satan, TripWire.
- 7. Online and electronic voting:
  - (a) Pentagon plan for online voting for 2004 election was cancelled in Feb. 2004.
  - (b) Benefits, risks?

## 3 Discussion Questions

1. 21—