Chapter 1

INFORMATION SYSTEMS SECURITY

INTRODUCTION

- Classify each of the following as a violation of confidentiality, of integrity, of availability, of authenticity, or of some combination of those.
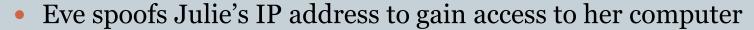 - When someone copies another person's homework.
  - Eve peeks at Alice's password when she is logging in.
  - Eve logs into Alice's account using Alice's password without Alice knowing about it.
  - Eve changes the amount of Alice's check from $1000 to $10000.
  - Eve spoofs Alice's IP address to gain access to her computer.
  - John copies a file from Alice's account and then deletes the file from Alice's directory.
  - Eve crashes Alice's system.
  - Eve forges Alice's signature on a contract.

- When someone copies another person's homework.
  - Confidentiality (homework was exposed)
- Eve peeks at Alice's password when she is logging in.
  - Confidentiality (Password was exposed)
- Eve logs into Alice's account using Alice's password without Alice knowing about it.
  - Confidentiality (Eve obtained Alice's password)
  - Integrity (Eve acting as Alice)
- Eve changes the amount of Alice's check from $1000 to $10000.
  - Integrity (the amount of the check has changed)

- Eve spoofs Julie's IP address to gain access to her computer
  - Integrity (Eve acting as Alice)
  - Confidentiality (Eve access Alice's data)
- John copies a file from Alice's account and then deletes the file from Alice's directory.
  - Confidentiality and availability
- Eve crashes Alice's system.
  - Availability (the system is down)
- Eve forges Alice's signature on a contract.
  - Integrity (source origin compromised)