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CLASS PREP 2.2

This class prep assignment will be **graded on effort.** Please do not leave any questions blank – if you are stuck, either formulate a question that you believe will help you get unstuck or write down some preliminary ideas.

1. **What are the five requirements of network security?**

   Five requirements of network security is: Confidentiality, Integrity, Availability, Authenticity and Accountability

2. **Name and briefly describe some forms of active attacks.**

   Some forms of active attacks:
   -Masquerade Attack: An attacker pretends to be a legitimate user
   -Replay Attack: Captured data is resent to trick a system
   -Modification of Messages: Intercepting and changing a message's contents before delivery.
   -Denial of Service (DoS): Overloading a network or server to make it unavailable to legitimate users

3. **What is hash function?**

   A hash function is any function that can be used to map data of arbitrary size to fixed-size values, though there are some hash functions that support variable-length output. The values returned by a hash function are called hash values, hash codes, (hash/message) digests, or simply hashes.

4. **What are your thoughts on security in social media apps (SNS)?**

   Security in SNS (Social Networking Services) is critical because they store personal data, messages, photos, and even financial information. Some concern of mine including:
   - Data privacy: Social media companies often collect and share user data
   - Malicious links: Spread of malware and scams through shared posts or message
   - Lack of transparency: Users often do not know how their data is used