

Authentication & Encryption

Determine what kind of security attack (DDOS, Man in the Middle, Malware, None) each of the following situations is describing

- 1) A malicious student sends their professor a python file, which when opened, deletes all student grades from the professor's gradebook.
- 2) During quarantine, everyone in a city orders food for pick up from Target.com.
- 3) Someone sets up a fake router at their local Starbucks, and intercepts all Starbucks' customers' private information.
- 4) A hacker writes code to send repeated stock buy and sell requests through Robinhood, causing the app to crash for all users.

Encode the following strings using the Caesar Cipher method with the specified shift number for each string

- 1) "diaj", 7
- 2) "rachel", 10
- 3) "elizabeth", 3
- 4) "rishab", 25

What is the difference between symmetric and asymmetric encryption algorithms?