

Week 1 Wednesday

Inner Animal

Turn to someone sitting near you who you haven't met before (or who you haven't talked to much before). Take about 3 minutes to discuss:

If you could wake up tomorrow and be any (non-human) animal, what animal would you choose to be and why?

Terminology, Rectangular Transposition, Caesar Cipher

1. Alice and Bob share the keyword ZEUS. Alice uses rectangular transposition to encrypt the following *nonsense* plaintext:

MTSQAGXY

What is the corresponding ciphertext?

- (A) QMSTYAXG
- (B) TQSMGYXA
- (C) STQMXGYA
- (D) QTMSYGAX

2. Alice encrypts the following message using a Caesar cipher with a shift of 1.

Zeus is hiding in a cave

What is the corresponding ciphertext?

- (A) YDTRHRGHCHMFHMZBZUD
- (B) AFVTJTIJEJOHJOBDBWF
- (C) BGWUKUJKFKPIKPCECXG
- (D) None of the above.

3. The following message was encrypted using rectangular transposition with the key word SNAKE. What is the plaintext?

DSUEMSEDIAJQQDA

4. A Caesar cipher with a shift of 30 is the same as a Caesar cipher with a shift of:

- (A) 1
- (B) 2
- (C) 3
- (D) None of the above

5. The following message was encrypted using a Caesar cipher with shift of 3. What is the plaintext?

KHUFXOHVVWROHPBKRUUVHV