Simple Columnar Transposition Cipher (Single Transposition)

Its a variation of the Rail Fence Cipher.

1. Write the plaintext message row by row in a rectangle of a predefined size depending upon a key.

For Example : ZEBRAS
                6 3 2 4 1 5

2. Read the message column by column.

3. The message thus obtained is the ciphertext message.

Plaintext: We are discovered. Flee at once.

keyword: z e b r a s
          6 3 2 4 1 5

Encryption: We need to divide the plaintext into groups of 6 characters, as the key is of 6 characters.

6 3 2 4 1 5
W E A R E D
I S C O V E
R E D F L E
E A T O N C
E Q K J E U

Here, the characters QKJEU are added as Dummy Characters to make the guessing even more difficult.

Ciphertext:

EVLNE ACDTK ESEAQ
  1   2   3
ROFOJ DEECU WIREE
    4   5   6

Decryption: As the receiver is aware of the key. He/she will start filling the columns in the same order of the key with the CT characters.

6 3 2 4 1 5
W E A R E D
I S C O V E
R E D F L E
E A T O N C
E Q K J E U