Week 5 Wednesday

Get Up And Move!

Move somewhere where you don't normally sit and/or next to someone you don't usually sit near! If you usually sit in the back, move forward. If you usually sit on the sides, move to the center.

Then introduce yourself to your new neighbors!

Breaking Rectangular Transposition

1. Suppose you have just intercepted a ciphertext with 10000 characters that was encrypted using rectangular transposition. How many periods might you have to guess?

(A) 2

(B) 4

(C) 8

(D) None of the above

2. Suppose that, when trying to codebreak some ciphertext that was encrypted using rectangular transposition, you make a guess for the period and find the following "G box."

$$\begin{bmatrix} \infty & 2449.8 & 1184.1 & 2572.5 & 1263.3 & 2465.9 \\ 1226.4 & \infty & 2500.9 & 1393.9 & 2688.2 & 2531.3 \\ 2391.8 & 2542.1 & \infty & 2376.1 & 2506.3 & 2342.5 \\ 2646.2 & 1249.5 & 2424.9 & \infty & 2524.8 & 1162.5 \\ 2571.5 & 2492.5 & 2597.8 & 2485.5 & \infty & 2300.3 \\ 2360.4 & 2417.6 & 2431.6 & 2372.1 & 2175.2 & \infty \end{bmatrix}$$

Does it seem like you've guessed the right period?

(A) Yes

(B) No