Lab 8 Worksheet	Name:
Networks/Data Encryption Network:	
Exercise 11.1: Running the network s	imulator. Follow instructions.
	Follow the instructions and answer the following questions: acket to complete the transmission? What happens?
Exercise 11.3: Damaging a packet. Describe what happens and how the r	Follow the instructions and answer the following questions: eceiver remedies the problem.
	rk. Follow the instructions and answer the following questions. So you think this would prevent the hacker from correctly determining
	otion algorithm. Follow the instructions. Our changes affect the encrypting the original message.

Data Encryption : Read through the instructions!
Exercise 12.1: Running the encryption simulator
Original string:
Encrypted string:
Exercise 12.3: Stepping through the process
A pair of characters falls in the same row or column in the matrix:
The last character (the odd one) is processed:
Exercise 12.4: Refining the algorithm: Rewrite Step 4 of the encryption algorithm to specify the order in
which the characters found at the remaining corners of the rectangle are used.

Exercise 12.5: Decryption
Original string:
Encrypted string:
Result of encrypting the encrypted data:
Result of encrypting the encrypted data with a new matrix:
Exercise 12.6: Explanation
Explain why this encryption algorithm is its own inverse, that is, why running the algorithm on
encrypted data returns the original data.
Exercise 12.7: Repeating characters: Describe what is peculiar about the encoded string and explain why ths happens.
Exercise 12.8: An improvement: Do you think that a problem is caused when a string having repeating characters or an odd number of characters is encrypted with this method? How would you change the algorithm to solve this problem?