Homework Assignment #1B

Note

This assignment is due 2:10PM Tuesday, October 8, 2013. Please write or type your answers on A4 (or similar size) paper. Drop your homework by the due time in Yih-Kuen Tsay's mail box on the first floor of Management Building 2. Late submission will be penalized by 20% for each working day overdue. You may discuss the problems with others, but copying answers is strictly forbidden.

Problems

- Solve the following exercise problems in Stallings' book (6th edition): 4.17 (10 points),
 5.1 (10 points), 5.2 (10 points), 5.4 (20 points), 5.6 (10 points), 6.4 (10 points), 6.7 (10 points), 6.8 (10 points).
- 2. Consider pseudorandom number generation based on block ciphers and assume AES-128 is used as the encryption algorithm. What is the expected period of the bit stream with the OFB mode of operation? Please justify your answer. (10 points)