## Homework 5

## Due at the beginning of class on October 28

1. Implement an attack against basic CBC-MAC showing that it is not secure when used to verify messages of different lengths. Here, you will be given the ability to obtain tags (with respect to some unknown key) for any 2-block (32-byte) messages of your choice; your goal is to forge a valid tag (with respect to the same key) on the 4-block (64-byte) message "I, the server, hereby agree that I will pay \$100 to this student." (Omit the final period and the quotation marks. You should verify that the message contains exactly 64 ASCII characters.) You will also be given access to a verification routine that you can use to verify your solution.

Turn in your code as well as the tag (in hex) for the 64-byte message above.