Buffer Overflow Homework

## Server Denial of Service

* 1. Download the server and client executables from [http://www.cse.msu.edu/~cornwe19/cse825/](http://www.cse.msu.edu/~cornwe19/cse825/%20) These can be run in separate terminals by starting with the server in the first and sending messages to it via the client with ‘client.out 127.0.0.1 <server port reported in the first terminal> “message” ‘.
  2. The server has a printf vulnerability that can be exploited by the client. Find it and use it to crash the server. Attach a screenshot of both the client and server terminals to your homework submission.

## Spawning a shell

* 1. Write a segment of self-contained assembly code that could spawn a shell (unix or windows)
  2. Using byte code from your assembly program (or the pre-provided byte code on our website), spawn a shell from the vulnerable executable provided on our website.
     1. Provide the entirety of the input used to pull off the attack
     2. Provide a screen shot of the command line displaying the overflow happening