

## **Assignment:** Buffer Overflows

### **Description:**

Please complete the following lab CTF challenges, preferably in Python 3, using the “pwntools” library:

- Lab 2-1
- Lab 2-2
- Lab 2-3

Labs 2-1 and 2-2 should be relatively straight forward, as they are nearly identical to the problems shown in the lecture. I expect everyone to be able to solve these. Lab 2-3 is fundamentally the same, but looks and feels different which may make it slightly more challenging to write an exploit for. Please give it your best effort, but rest assured I will still grade generously for a strong attempt at the third, even if you do not achieve a working exploit. ...but I bet you will. :)

Also, from this point in the semester on I would like you to please document your solutions. Trust me, you’ll thank yourself later for taking the time to document! “Documentation” may be as simple as code comments throughout your script, explaining what each part does, or as fancy as a separate write-up with screenshots, diagrams, and full explanation. Up to you, I’d just like to see your thought process.

Don’t forget to submit those flags as you go! :)

### **Deliverables:**

- For each of the three labs listed above, please turn in to the dropbox...
  - Your well documented script which solves the challenge
  - A screenshot of it running, showing that it works.