

EECS 388 Discussion 3/26/15

HW5 and Buffer Overflows

Homework 5 - Exam Review

- HTTP vs HTTPS
- Web attacks and web security
- Secure programming, defending from stack overflow attacks
- Ethics...be responsible!

Homework 5 - Exam Review

- How to do well on the exam?
 - Understand the topics covered in lecture
 - Understand the projects, the security vulnerabilities as well as possible defenses
 - Look at practice exam on CTools
- How to not do well?
 - Have your partner do all the projects

Buffer Overflow Discussion

- How does the stack look?
- Where is the return address?
- What can you return to? How to gain control of a program? (Shellcode)
- Integer overflow? What is it? How does it work?
 - $2^{31} \ll 2 = ?$

Buffer Overflow Discussion

- What is DEP? How can we work around it?
- Address-Space Layout Randomization (ASLR)
 - why don't previous attacks work?