

Homework Assignment #5 – Reversing – Part II

Practical Cyber Security Fundamentals (CTF), Spring 2017
Department of Computer Science, Florida State University

Points: 30

Due: Beginning of the class (5:15pm) on February 27, 2017

Submission: You need to submit electronically via Blackboard by uploading a text file (named “**hw5-Firstname-Lastname.txt**”) for your answers and programs to the problems; you need to combine all the parts into a single file. Here replace “Firstname” using your first name and replace “Lastname” using your last name in the file name.

The main purpose of this assignment is to let you be familiar and become comfortable with reversing and analyzing binary files by understanding executable file structures and being able to use proper tools to disassemble the programs. You need to **show your work** in order to receive full credit.

Here are three binaries with different challenges. There are many ways to solve the challenges. Don’t give up right away as reversing questions need patience.

Problem 1 (15 points) Solve the challenge below.

Where to start? Not at the end...

<http://www.cs.fsu.edu/~liux/courses/ctf/assignments/hashstring>

Problem 2 (15 points) Solve the challenge below.

You all made me write C! At least I got to write some math to make up for it...

<http://www.cs.fsu.edu/~liux/courses/ctf/assignments/guesstring>

Extra-credit option (5 points) If you solve this problem (Problem #2) using angr, you will receive 5 extra credit points.