

CS 220, Fall 2017
Assignment 7 – (100 points)
Due date: 22 Oct 2017, 11:59pm.

Instructions

- Answer the questions individually. Group effort is not allowed.
- Solutions must be committed to your respective repositories on github.
- Ensure that your code runs on `remote.cs.binghamton.edu`.
- Prototypes must be provided for all functions within the header file `define.h`.
- Code must be appropriately commented.
- Useful resources:
 1. Common linux commands: <http://www.informit.com/blogs/blog.aspx?uk=The-10-Most-Important-Linux-Commands>
 2. <http://c-faq.com/>
 3. <http://www.felixcloutier.com/x86/>

Questions

1. **(100 points)** Implement the reversal function from Lab 7 using x86-64 assembly within `reverse64.S`. Support all the corner cases that are supported in the 32-bit version. Call the function **`reverse_asm_64`**. Test the function using the provided `driver.c` from Lab 7 and the same payloads as used in the lab.

Submission

Make a submission on MyCourses with the 7-digit SHA hash from your repository commit which should be graded. Do not submit any files.