**Challenge #3**

**Mid Term Capture the Flag**

**Cyber 262**

Please write a Python program to analyze all of the three given log files and print to console the following outputs:

* One of the three log files contains three particular kinds of events: events which execute program “/usr/bin/wget”, lstat events, and events which execute program “/bin/chmod”. Please find the log file that contains all the three kinds of events, and output all the following three-event sequences:
  + Inside each such three-event sequence:
    - The first event must be an event which executes program “/usr/bin/wget”;
    - The second event must be a lstat event;
    - The third event must be an event which executes program “/bin/chmod”;
    - The first event must precede the second event, and the second event must precede the third event;
    - The three events do not need to be neighbors;
    - The three events must all contain “remote\_shell.elf” in their log entries;
    - The three events do NOT need to happen to the same pid;
  + Inside each such three-event sequence:
    - Between the first event and the third event, there are no other events which execute program “/usr/bin/wget” or program “/bin/chmod”;
    - Please output the whole log entry for each of the three events;
    - Please output the timestamp of each of the three events;

**What to submit**:

* Your Python program
* The outputs you get (in a txt file)

Please put all these items in a folder and compress the folder into a single ZIP archive file. Include your team name in the file name of the ZIP archive.