Greetings Class,

As stated in Lecture, all you need to do for this assignment is replicate what I did with rip.exe and send me your screenshots (see Rubric).

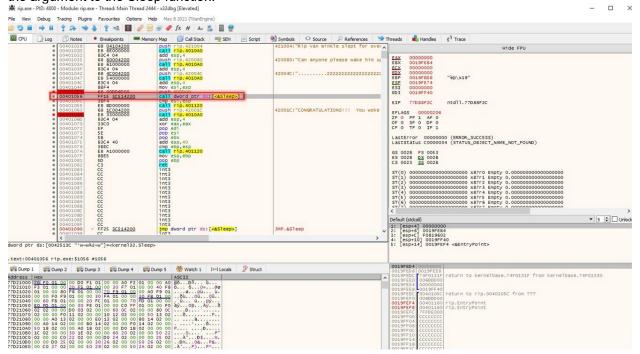
Assignment

- --Download rip.exe from Professor Ervin's OneDrive account.
- --Also, Install x64dbg to assist with your debugging efforts.
- --To assist you, please reference Prof Ervin's lecture that demonstrates how to use x32dbg to debug and instrument executables. Additionally, how to use HxD to patch malware.

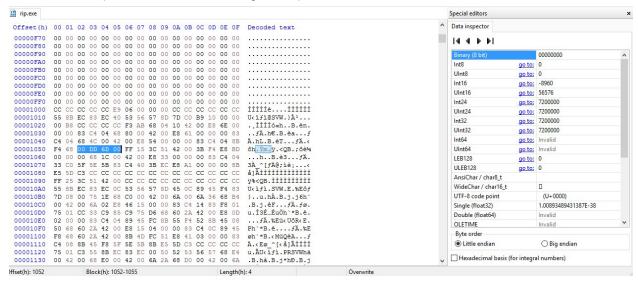
GRADING RUBRIC -- To receive full credit for this assignment, you must answer the following:

- 1. Use x32dbg to load rip.exe. Submit a screenshot of the debugger disassembly window showing the argument to the Sleep function.
- 2. Use HxD to patch rip.exe to no longer sleep. Submit a screenshot highlighting your HxD modifications.
- 3. Save a copy of your new modifications (i.e. rip2.exe) and execute at the command-line. Submit a screenshot showing that you woke RIP up.

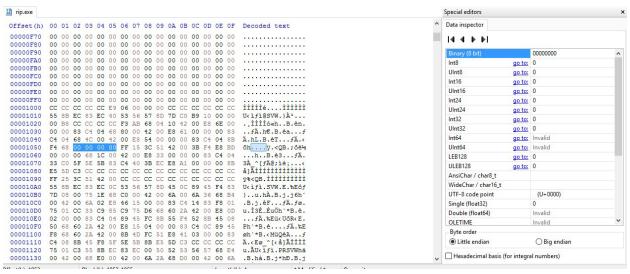
1. Used x32dbg to load rip.exe. Below is a screenshot of the debugger disassembly window showing the argument to the Sleep function.



2. Used HxD to patch rip.exe to no longer sleep.



Without modifications via HxD



With modifications via HxD, changed 00 DD 6D 00 to 00 00 00 00

3. Saved a copy of my new modifications as rip2.exe and executed at the command-line. Below is a screenshot depicting that I woke RIP up.