Homework Number: hw10

Name: Shu Hwai Teoh ECN Login: teoh0

Due Date: Thursday 4/09/2020 at 4:29PM

- 2. explanation of why you chose the string:
  - address of variable str in clientComm(): 0x7fffffffe42b
  - return address of clientComm(): 0x7fffffffe448
  - entry to the object code for the secretFunction() function: 0x000000000400dc8
  - difference between address of variable str and return address of clientComm(): 0x7fffffffe448 - 0x7fffffffe42b = 29
  - Therefore, the specially crafted buffer overflow string is 29\*A concatenated with the entry to the object code for the secretFunction() function.
- 3. explanation of your fixes to the code: when the number of characters inputted by client is larger than MAX\_DATA\_SIZE, let the server send string "less" to client and prevent the server from using strcpy().
- 4. the modified parts of the server code by highlighting or underlining them: as the following page, the modified part is highlighted in pink.