**CSE 410/510 Software Security, Fall 2022**

**Instructor: Ziming Zhao**

**Homework – 12**

**Heap exploitation**

[15 points] Task 1: Capture the flag of **heapoverflow1\_32**. Your screenshots should clearly show the exploit.

[15 points] Task 2: Capture the flag of **heapoverflow2\_32**. Your screenshots should clearly show the exploit.

[15 points] Task 3: Use ***lscpu*** or other utilities to find out what is the CPU model of **your own machine**. Explain the cache size. Compare with our server’s CPU cache size. Take screenshots. Find out the following information of your CPU online. Paste the links of such information: 1) size of level 1, 2, and 3 caches; 2) number of ways; and 3) Calculate the number of sets at each cache level.