CS 261 Machine Organization Fall 2018

LABW1 (100 points)

Name 1   Kimmy Hughes   **NetID 1**   khughe6

Name 2   Jonathan Tso   **NetID 2**   jtso2

This lab is due via GradeScope. You must complete your work in the space provided below for the questions in the lab. The lab is due at the end of your session, so be sure to upload prior to the end of your lab session.

1) Now using gdb, determine the addresses of the variables named "a" and "b". (20 points for each address)

Variable	Address
a	0x7ffffffffea68
b	0x7ffffffffea60

2) Create a table and show the values in those two addresses after each step (in the C-code) of the two functions (swap and inplace_swap). (2 functions, 3 steps per function, 2 variables, 5 points per variable, 60 points total)

Function swap

Step	Value of "a"	Value of "b"
1	0x574f524c44	0x48454c4c4f
2	0x574f524c44	0x48454c4c4f
3	0x48454c4c4f	0x48454c4c4f

Function inplace_swap

Step	Value of "a"	Value of "b"
1	0x48454c4c4f	0x574f524c44
2	0x48454c4c4f	0x1f0a1e000b
3	0x574f524c44	0x1f0a1e000b