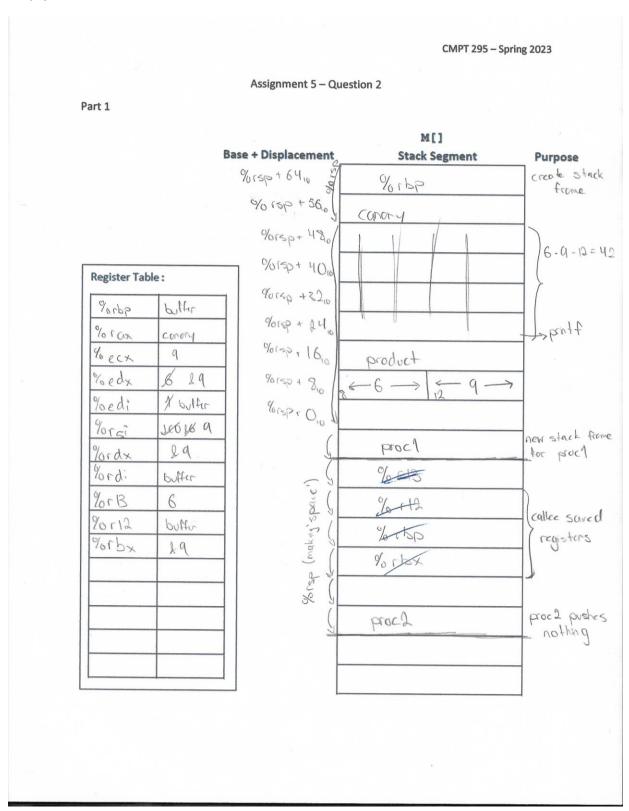
## Assignment 5 – Question 2

Part 1



## Part 2

What happens to the **canary** value when you reduce the size of buf from 40 down to 24, and x = 6, y = 9?

Original values: x=6, y=9 where 69=54

Final values: x=7, y=6 where 76=42

The buffer itself overwrites the buffer when it gets brought down from 40 to 24. Because the buffer is small, the p1.c function containing sprintf which overwrites the canary value. With these final values, it produces the error stack smashing detected: terminated Aborted (core dumped).