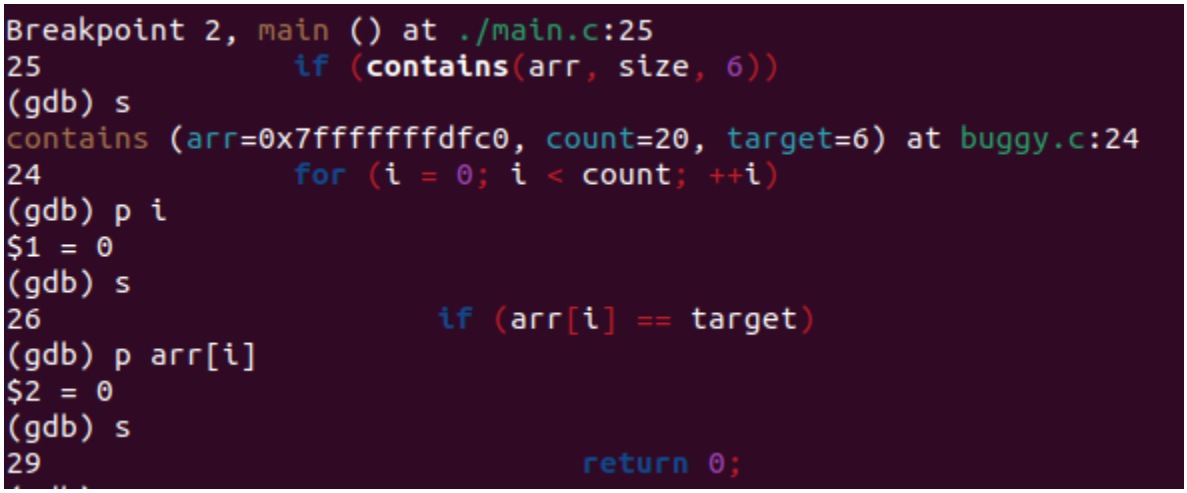
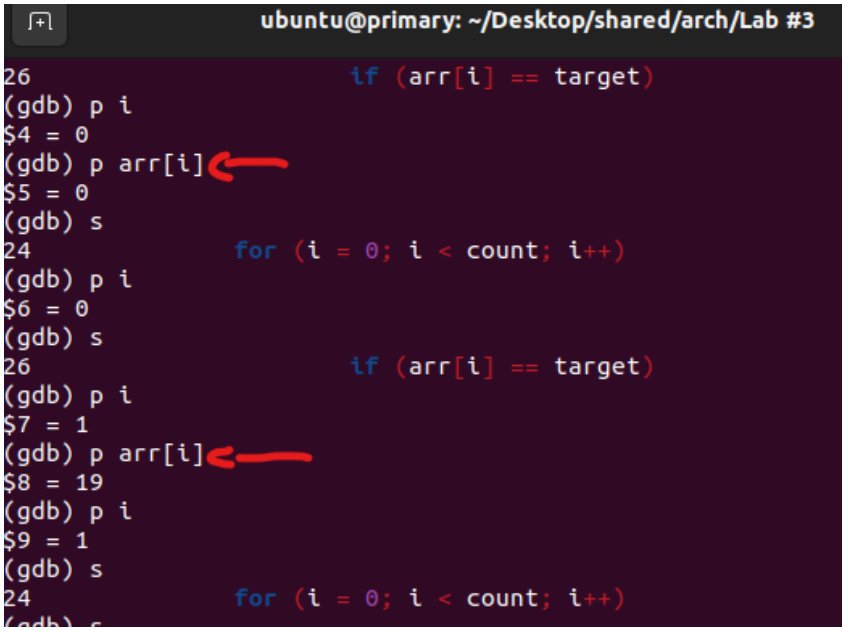
Pledge: I pledge my honor that I have abided by the Stevens Honor System.
Name: Haig Emirzian



When iterating through the for loop, it was returning 0, and stopping the program because there was a semicolon next to the for loop on line 32 in buggy.c. The gdb commands I used were s, b, and p. Once I started the program, I used s to iterate through each line. Then I put a breakpoint on the line the for loop was on. I ran the program again and iterated through each line again with the s command. Finally, I used p to print the current i in the arr and saw that 0 was being returned always.



The counter needed to be dereferenced by adding a & to it, while the int in the add function in buggy.h needs to be dereferenced by adding a * to it. The bug was the counter. It was not iterating through the array when adding new elements; rather, it was adding the new elements in

the same index. I used the p command to print the array's indices to see which elements occupy which index. When I printed the same index of the array, it kept on replacing the last element in the same index.

This is the final result. I compiled the file using ./main and pressed c to use the continue command.