

Part 1:

4. (gdb) break 6
4. (gdb) r
- 6.

	1st iteration	2nd iteration	3rd iteration	4th iteration	5th iteration
num	112	11	1	0	n/a
rev_num	5	52	521	5211	n/a

There is no 5th iteration because num is no longer > 0

8. What the foo function does is that it reverses the input that is provided to it. We started out by 1125 and ended with 5211.

Part 2:

1. Line 12, line 13, and line 22
 - a. Fix line 12 by adding single quotation marks around `\n` this means that instead of having `\n` it will be `'\n'`
 - b. Fix line 13 by initializing space at the beginning so add `int space;` before the while loop.
 - c. Fix line 22 by adding the type of the value in the printf statement. So to fix this add `(float)` right before letters.
 - d. Correct C program:

```
owner — mberhanu2@gsuad.gsu.edu@snowball:~ — ssh mberhanu2@snowball.cs.gsu.edu...
#include <stdio.h>

int main() {
    int letters;
    int words;
    int character;
    int space;

    printf("Enter a Sentence: ");
    while((character=getchar()) != '\n') {
        if(character != ' '){
            if(!space){
                words++;
                space=1;
            }
            letters++;
        }else
            space = 0;
    }

    printf("Average word length : %.1f", (float) letters/words);

    return 0;
}
```

