Problem Set 02

1. 1.
   1. It prints “11” on the last line.
   2. It prints a number not specified because after before the loop exits, i is increased by 1 and since it was declared out of the scope of the loop prints 11.

2. a. It prints “111132709” on the last line. Or some other ridiculously long number.

b. I have no idea why. My thought is that there is something going on where the first int i is used or substituted in at some point during the loop and compounds on itself … but I really have no idea.

1. 2. a. src only prints “so fun”.

b. there was a buffer overflow since dest has 24 spaces in array and src only has 16. So the initial 16 spaces were discarded and the remainder fit in the now empty 16 slots.

c.change the src array size to 24… or however many you need to fit the string.

3. a. the size was 16 + 24. I think that the sizeof(dest) copied and added to the src array rather than replace.

3. a. src did change. My guess is that in scanf the dest string overflowed and the extra string was dumped into src.

b. I think because of the specification of the size of the string (%15s) the program recognized that the there is a specific cut off and the buffer overflow does not need to be dumped into another string.