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Homework 3

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CMSC 140

1. What is the value of x at #Q1 MARKER?

The value is 5 at #Q1 because silly\_program() has not been called yet.

2. What is the value of x at #Q2 MARKER?

The value at #Q2 is not set yet because x is not created until the next line and it is not passed in as a parameter, so it would not be 5.

3. Is the x above Q1 MARKER and the x above Q2 MARKER the same variable? Why or why not?

No, they are not the same. This is because #Q2 x is a local variable belonging to silly\_program() and #Q1 x is a global variable that is outside of the method.

4. Write out what this code will print. Do not run the code before writing it out. You will only be evaluated on whether you have written something reasonable here, not its correctness.

I think this code will print out:

This is my program.

0

0

0

1

1

1

5. Run the code to check your work. Note if your initial guess was different than on the code's output, and if so, why? What was different between the two, and do you understand why they were different? You will be evaluated not on whether your initial guess was correct, but on your explanation of how running the code matched or didn't match to your initial guess.

My initial guess was incorrect. I initially thought `i` only updated outside of the for-loop but inside of the while-loop because I mixed it up with the variable `x`. The variable `i` actually updates after each cycle through the for-loop so it reaches 2 twice. That makes sense; I just need to be more observant.