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ME 477 – Winter 2019
Lab 0

1. What values do you expect in the x array after the program has executed?

The values of i should be 0,1,2,3
The function sumsq() in main() takes in the value of i, squares it, adds it to the previous value of y, and returns the result. The value of Y will remain between function calls because Y is designated as a static variable.

The values of x should be:

$Y = 4+0*0 = 4$
$Y = 4+1*1 = 5$
$Y = 5+2*2 = 9$
$Y = 9+3*3 = 18$

2. What are the current values of i and the array x?

The values of i become: 0 1 2 3 4
The values of array x become   4 5 9 18

3. Are the results consistent with your understanding of the program? Explain.

My result is consistent with my understanding of the program. Y is a static variable and should retain its value between function calls. Such that the display should show 4,5,9,18. I forgot that the value of i is incremented all the way to four but only executes the printf() command for the values 0 1 2 3.