

# 06-lab\_Answer\_Sheet(1)

Tuesday, September 29, 2020 4:19 PM

CS2400

Answer Sheet for Laboratory Assignment #6

Name/PID: \_\_\_\_\_

**Turn this sheet to your lab instructor at the end of the lab for grading.**

## Step 2:

**Answer the following 5 questions by manually tracing the nine functions given in lab sheet.**

1. (10 pts.) For the first cout statement, which **sum** is called?

First sum.

2. (10 pts.) For the second cout statement, which **sum** is called?

Third sum.

3. (10 pts.) For the third cout statement, which functions are called? In this case, give the order that the functions are called as well.

Sixth sum, first sum, and then first sum again.

4. (10 pts.) For the fourth cout statement, which functions are called? In this case, give the order that the functions are called as well.

Eighth sum, fourth sum, first sum, fifth sum, and then second sum.

5. (10 pts.) For the fifth cout statement, which functions are called? In this case, give the order that the functions are called as well.

Ninth sum, seventh sum, then second sum, then second sum again, and finally second sum for the third time.

## Step 3: For questions 6 – 9, make the changes and compile and run the program.

6. (10 pts) **Explain** what happens if you **remove** the & sign from the **getNum** function declaration (prototype) and the function heading. Don't forget to put the & back before moving on to the next question.

It will only print zero for the minimum. And cannot

7. (10 pts) Similarly **explain** what happens if you remove the & from **findMin** exit function declaration and the function heading. Don't forget to put the & back before moving on to the next question.

The minimum becomes whatever the user last inputted.



Name/PID: \_\_\_\_\_

8. (10 pts) **Explain** what happens if you change the order of *actual arguments* in the **function call**

`findMin(minimum, number);` The minimum becomes whatever the user first inputs into the program.

to

`findMin(number, minimum);`

9. (10 pts) Explain what happens if you **remove the call** to the function `getNum(number);` Comment (//) this statement out and run the program to find out the outcome. Make sure that you remove the // before moving on to the next question (b)

- 9a. **Before** the `while` loop.

The program prints that the number is zero, and the minimum also becomes 0. This happens because minimum and number are both uninitialized.

- 9b. **Inside** the `while` loop

The program will endlessly print whatever you enter, unless you enter -1 in which case it will exit and display -1 as the minimum.

10. (10 pts) Identify and write the names of **value and/or reference** parameters in the following functions. Write the word **none** if there are no value/reference parameters.

	<b>getNum</b>	<b>findMin</b>
value parameters:	none	Int curNum
reference parameters:	Int& num	Int& curMin