

## Kerry Ojakian's CSI 32 Class

**Due Date:** Monday February 12 in class

# HW #1

**Instructions:** Write your responses on paper to hand in. Yes, even the program - write them clearly! and with correct syntax! Use the C++ compiler in your work.

## The Assignment

1. Exercise 1.6 (page 10), 1.8 (page 12)
2. Exercise 3.8, 3.9 (page 90)
3. Exercise 3.12 (page 93)
4. Exercise 5.1, 5.2, 5.3 (page 151)
5. Exercise 5.8 (page 154)
6. Write a complete C++ program, i.e. with a `main()`, that does this: Gets 3 doubles from the user and prints out their product.
7. Write a complete C++ program, i.e. with a `main()`, that does this: It asks the user for 3 integers, and creates a C++ set with these added to it.
8. Suppose an unordered map is initialized as follows:

```
unordered_map<int, double> M;  
M[2] = 2.2;  
M[5] = 5.4;  
M[3] = 1.0;
```

- (a) What is the value of  $M[2] + M[5]$ ?
- (b) What is the value of  $M[2] + 5$ ?
- (c) If we execute the line  $M[2] = M[2] + M[3]$ ;, what values of  $M$  change, and what do they change to?
- (d) What is wrong with this line of code:  $M[7.3] = 9$ ;
- (e) What is the result of this line of code:

```
cout << 2*M[2] + M[5]/2;
```