Week 3 Exercises Part 1

Sandra Batista

- 1. Exercise: grocerylist.cpp
 - 1. Write a copy constructor for GroceryList
 - 2. Write a copy assignment operator for Grocery List

Extra practice

- 1. Write an '==' operator for GroceryList
- 2. Write [] operator for GroceryList. Make sure to include const and non-const versions. (why
- 3. Write + operator for GroceryList
- 4. Write += operator for GroceryList

Code:

https://github.com/sandraleeusc/csci104_fall 2020_lecture/

```
// for main inside grocerylist.cpp
//once you have written appropriate
//functions, you can change main to this
int main() {
 GroceryList list1, list2;
 list1.addltem("apples");
 list1.addltem("bananas");
 list1.addltem("peaches");
 list1.printList();
 list2.addItem("onions");
 list2.addItem("peppers");
 list2.addltem("broccoli");
  GroceryList list3 = list1;
  cout << boolalpha << (list1 == list3) << endl;
 GroceryList list4 = list1 + list2;
 list4.printList();
 cout << list4[3] << endl;
 list4[3] = "oatmeal";
 list4.printList();
```

2. T/F and Multiple Choice Inheritance questions

Submit your solutions to these previous exam T/F and multiple choice questions on inheritance.

The code for tracing is available here:

https://github.com/sandraleeusc/csci104_fall2020_lecture

Trace the output of functiontrace.cpp

- The output is in function_trace_output
- You need to understand what function is being called on each line and why.
- You should understand what function printed each statement.
 Other functions are called that do no print anything.
- · You can add print statements to standard error, cerr
- To compile: g++--std=c++17-o test functiontrace.cpp
- To run and redirect standard error to a file:
- ./test 2> testing_outputfile