Object-Oriented Programming Using C++ 605.604

JOHNS HOPKINS UNIVERSITY Whiting School of Engineering

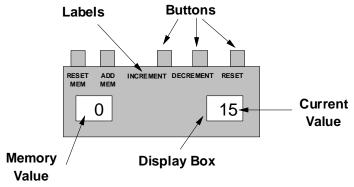
Week 4 Assignment Due Date 06/28/21

1. 50 points

Consider the class MyArray, that defines a simple array class, as indicated below. Implement a copy constructor for the class so that expressions of the form MyArray newobj = existingObj are executed correctly. Note that existingObj is an existing MyArray instance.

2. 50 points

In an earlier class lecture, we demonstrated implementing an object-oriented solution for a simple counter. Assume we have a need to implement a slightly different counter, one that also has a memory capability, as indicated below:



Use the containment technique that was discussed in class (to build composite classes) to implement a memory counter.

Submit source code for both problems, screen captures of program execution, and a UML class diagram for the second problem.

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Submit your work in a zip file using your first initial, last name, and problem set number as follows: *initial_lastname_assignment_4.zip*. For example, if your first name is Jane and your last name is Smith, the name of your submit file would be *j_smith_assignment_4.zip*.