CSCI 200 - Fall 2023
Foundational Programming Concepts & Design

Lab 4B - A Templated Warehouse

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This lab is due by Tuesday, October 31, 2023, 11:59 PM.
As with all labs you may, and are encouraged, to pair program a solution to this lab. If you choose to pair program a solution, be sure that you individually understand how to generate the correct solution.

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We'll now expand the capabilities of our existing Warehouse example. Instead of being able to store only Boxes in the warehouse, we'll want to be able to store an instance of any type of thing. Download the **templated warehouse starter pack**. The program will not be able to build out of the box.

The `Warehouse` class currently stores only a vector of Boxes. The `Warehouse` class needs to be properly refactored to be a templated class. The `Warehouse` can `store` an instance of any type. The `Warehouse` will likewise `retrieve` the corresponding instance of any type.

The expected output of the completed program is below:

```
Made Warehouse H with 2 boxes
H: Warehouse has 2 items (4, 2)

Setting Box 0 to size 5
H: Warehouse has 2 items (5, 2)

Made Warehouse C with 3 strings
C: Warehouse has 3 items (This, Is, template)
```

RMP-H

```
Manipulating strings 1 and 2
C: Warehouse has 3 items (This, is, templated.)
```

Grading Rubric

Your submission will be graded according to the following rubric:

Points	Requirement Description
0.70	Fully meets specifications
0.15	Submitted correctly by Tuesday, October 31, 2023, 11:59 PM
0.15	**Best Practices** and **Style Guide** followed
1.00	**Total Points**

Lab Submission

Always, **always**, **ALWAYS** update the header comments at the top of your `main.cpp` file. And if you ever get stuck, remember that there is LOTS of **help** available.

Zip together your `Warehouse.hpp` files and name the zip file `L4B.zip`. Upload this zip file to Canvas under L4B.
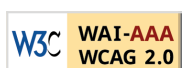
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Last Updated: 10/19/23 12:18

Any questions, comments, corrections, or request for use please contact jpaone {at} mines {dot} edu.

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