

HOMEWORK 3 - SPRING 2023

HOMEWORK 3 - GRADING KEY

1. (17 points) Documentation and coding style:

- Name, ID number and recitation at the top of ALL java files [2 points]
- Precise and correct specifications[5 points]
- Indentation[3 points]
- Variable names[2 points]
- Javadoc Style *(see NOTE). [5 points]

NOTE 1: You only need to submit your *.java files. We will use the javadoc *.java command to create the javadoc files.

NOTE 2: YOUR ASSIGNMENT WILL NOT BE GRADED if you submit only *.class files.

2. (18 Points) Source Code

- Implementation done as specified (additional methods are OK) [10 points]
- Coding style: flexible, extensible, good use of methods and avoid duplicate code. [5 points]
- Throw an exception back to the calling method(s) if a precondition is violated. [3 points]

3. (65 Points) Program Correctness

- Program compiles without any errors. [5 points]
- Correctly asks for number of Stacks, max height of stacks, and max total cargo weight at start [5 points]
- The following menu items are implemented correctly:
 - C) Create new cargo [9 points]
 - L) Load cargo from dock [8 points]
 - U) Unload cargo from ship [8 points]
 - M) Move cargo between stacks [9 points]
 - K) Clear dock [4 points]
 - P) Print ship stacks [5 points]
 - S) Search for cargo [6 points]
 - Q) Quit [1 point]
- Erroneous input handled "gracefully." (Appropriate Error messages displayed to the user.) [5 points]

5. (**5** points) Extra Credit

• Implemet the R) Remove operation which automatically removes all cargo items with the indicated name from the ship. [5 points]