Anna Lehner SER316 Summer A 2022 Assignment 2

- Which Cart implementation adheres to the specification best? Is there one that passed all your test? If so which one is it and why?
  - Yes, Cart4 adheres to all of the tests. It correctly totaled all of the Products tested, correctly applied discounts and tax, and correctly applied the UnderAgeException.
- List in detail which errors you found and tell me which test case(s) helped your fine it:

Cart0 is not adding tax on Dairy, Meat, or Frozen Food. It is incorrectly throwing the UnderAgeException for a shopper who is 21yo.

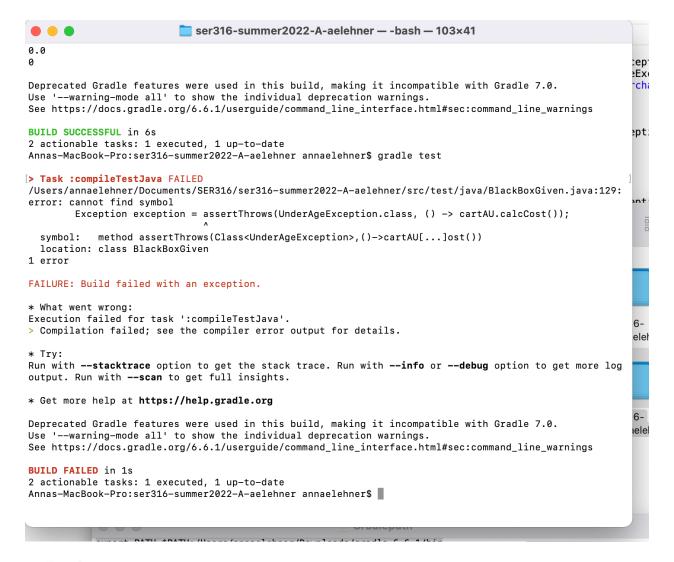
Cart1 is not giving a discount for buying Produce in multiples of 3.

Cart2 has the price of Meat incorrectly set to \$9 instead of \$10. It is not throwing UnderAgeException for a 20yo buyer attempting to buy alcohol. It is not giving a discount for buying Produce in multiples of 3.

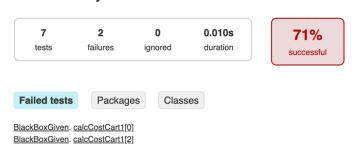
Cart3 is not giving a discount for buying Alcohol and Frozen Food together.

Cart4 appears to be working as expected!

Cart5 is not throwing UnderAgeException for a 20yo shopper attempting to buy alcohol.



## **Test Summary**



```
132
                                                                                                                                         133⊖
                                                                                                                                                           @Test
                                                                                                                                         134
                                                                                                                                                           public void calcCostCartD
     test.java.BlackBoxGiven [Runner: JUnit 4] (0.039 s)
                                                                                                                                         135
                                                                                                                                                                    double amount = cartD
          [0] (0.018 s)
                                                                                                                                         136
                                                                                                                                                                    assertEquals(cartDex,
              calcCostCart1[0] (0.006 s)
                                                                                                                                         137
                                                                                                                                         138
              calcCostCartD[0] (0.002 s)
                                                                                                                                         139⊖
              calcCostCartF[0] (0.002 s)
                                                                                                                                         140
                                                                                                                                                           public void calcCostCartM
              calcCostCartM[0] (0.000 s)
                                                                                                                                                                   double amount = cartM
assertEquals(cartMex,
                                                                                                                                         141
              calcCostCartAO[0] (0.004 s)
                                                                                                                                         142
              calcCostCartAU[0] (0.002 s)
                                                                                                                                         143
                                                                                                                                         144
              calcCostCartPS[0] (0.001 s)
                                                                                                                                         145⊖
              calcCostCartPT[0] (0.000 s)
                                                                                                                                                           public void calcCostCartF
                                                                                                                                         146
              calcCostCartAFO[0] (0.001 s)
                                                                                                                                         147
                                                                                                                                                                    double amount = cartF

√ Image: Value of the valu
                                                                                                                                                                    assertEquals(cartFex,
                                                                                                                                         148
              alcCostCart1[1] (0.001 s)
                                                                                                                                         149
                                                                                                                                         150
              alcCostCartD[1] (0.001 s)
                                                                                                                                         151⊖
                                                                                                                                                           @Test
              alcCostCartF[1] (0.000 s)
                                                                                                                                                           public void calcCostCartP:
                                                                                                                                         152
              calcCostCartM[1] (0.000 s)
                                                                                                                                         153
                                                                                                                                                                    double amount = cartP:
              alcCostCartAO[1] (0.000 s)
                                                                                                                                         154
                                                                                                                                                                    assertEquals(cartPSex
              alcCostCartAU[1] (0.001 s)
                                                                                                                                         155
                                                                                                                                         156
              alcCostCartPS[1] (0.001 s)
                                                                                                                                         157⊝
                                                                                                                                                           @Test
              calcCostCartPT[1] (0.001 s)
                                                                                                                                         158
                                                                                                                                                           public void calcCostCartP
              calcCostCartAFO[1] (0.000 s)
                                                                                                                                         159
                                                                                                                                                                    double amount = cartP
     ∨ □ [2] (0.007 s)
                                                                                                                                         160
                                                                                                                                                                    assertEquals(cartPTex
                                                                                                                                                           }
              calcCostCart1[2] (0.001 s)
                                                                                                                                         161
                                                                                                                                         162
              alcCostCartD[2] (0.000 s)
                                                                                                                                         163⊖
                                                                                                                                                           @Test
              alcCostCartF[2] (0.001 s)
                                                                                                                                         164
                                                                                                                                                           public void calcCostCartA
              calcCostCartM[2] (0.000 s)
                                                                                                                                         165
                                                                                                                                                                    double amount = cartA
assertEquals(cartAF0e:
              alcCostCartAO[2] (0.000 s)
                                                                                                                                         166
                                                                                                                                         167
              calcCostCartAU[2] (0.001 s)
                                                                                                                                         168
              alcCostCartPS[2] (0.000 s)
               alcCostCartPT[2] (0 001 s)
                                                                                                                                      🧖 Problems 🏿 @ Javadoc 🖳 Declaration 🗲
                                                                                                                 3 7
Failure Trace
                                                                                                                                      <terminated> BlackBoxGiven [JUnit] /Library/Jav
2 actionable tasks: 1 execûted, 1 up-to-date
Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner$ gradle jacocoTestReport
Deprecated Gradle features were used in this build, making it incompatible with Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/6.6.1/userguide/command_line_interface.html#sec:command_line_warnings
BUILD SUCCESSFUL in 3s
2 actionable tasks: 1 executed, 1 up-to-date
Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner$
```

## ser316-summer2022-A-aelehner

ser316-summer2022-A-aelehner

Element +	Missed Instructions	Cov. 🗢	Missed Branches		Missed	Cxty	Missed =	Lines	Missed =	Methods =	Missed =	Classes
main.java		19%		3%	25	36	72	96	10	21	4	9
Total	264 of 328	19%	26 of 27	3%	25	36	72	96	10	21	4	9

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