

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 you find 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.

```
ser316-summer2022-A-aelehner — -bash — 103x41

0.0
0

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 6s
2 actionable tasks: 1 executed, 1 up-to-date
Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner$ gradle test

[> Task :compileTestJava FAILED
/Users/annaelehner/Documents/SER316/ser316-summer2022-A-aelehner/src/test/java/BlackBoxGiven.java:129:
error: cannot find symbol
    Exception exception = assertThrows(UnderAgeException.class, () -> cartAU.calcCost());
                                   ^
    symbol:   method assertThrows(Class<UnderAgeException>,()->cartAU[...]lost())
    location: class BlackBoxGiven
1 error

FAILURE: Build failed with an exception.

* What went wrong:
Execution failed for task ':compileTestJava'.
> Compilation failed; see the compiler error output for details.

* Try:
Run with --stacktrace option to get the stack trace. Run with --info or --debug option to get more log
output. Run with --scan to get full insights.

* Get more help at https://help.gradle.org

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BUILD FAILED in 1s
2 actionable tasks: 1 executed, 1 up-to-date
Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner$
```

Test Summary

7	2	0	0.010s
tests	failures	ignored	duration

71%
successful

Failed tests

Packages

Classes

BlackBoxGiven. calcCostCart1[0]
BlackBoxGiven. calcCostCart1[2]

test.java.BlackBoxGiven [Runner: JUnit 4] (0.039 s)

[0] (0.018 s)

calcCostCart1[0] (0.006 s)

calcCostCartD[0] (0.002 s)

calcCostCartF[0] (0.002 s)

calcCostCartM[0] (0.000 s)

calcCostCartAO[0] (0.004 s)

calcCostCartAU[0] (0.002 s)

calcCostCartPS[0] (0.001 s)

calcCostCartPT[0] (0.000 s)

calcCostCartAFO[0] (0.001 s)

[1] (0.005 s)

calcCostCart1[1] (0.001 s)

calcCostCartD[1] (0.001 s)

calcCostCartF[1] (0.000 s)

calcCostCartM[1] (0.000 s)

calcCostCartAO[1] (0.000 s)

calcCostCartAU[1] (0.001 s)

calcCostCartPS[1] (0.001 s)

calcCostCartPT[1] (0.001 s)

calcCostCartAFO[1] (0.000 s)

[2] (0.007 s)

calcCostCart1[2] (0.001 s)

calcCostCartD[2] (0.000 s)

calcCostCartF[2] (0.001 s)

calcCostCartM[2] (0.000 s)

calcCostCartAO[2] (0.000 s)

calcCostCartAU[2] (0.001 s)

calcCostCartPS[2] (0.000 s)

calcCostCartPT[2] (0.001 s)

Failure Trace

2 actionable tasks: 1 executed, 1 up-to-date

Annas-MacBook-Pro:ser316-summer2022-A-aelehner annaelehner\$ gradle jacocoTestReport

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@Test

public void calcCostCartD

double amount = cartD

assertEquals(cartDex,

}

@Test

public void calcCostCartM

double amount = cartM

assertEquals(cartMex,

}

@Test

public void calcCostCartF

double amount = cartF

assertEquals(cartFex,

}

@Test

public void calcCostCartP

double amount = cartP

assertEquals(cartPsex,

}

@Test

public void calcCostCartP

double amount = cartP

assertEquals(cartPTex,

}

@Test

public void calcCostCartA

double amount = cartA

assertEquals(cartAFO,

}

Problems

Javadoc

Declaration

<terminated> BlackBoxGiven [JUnit] /Library/Jav

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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 [Sessions](#)

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Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed Cxty	Missed Lines	Missed Methods	Missed Classes
main.java	<div><div></div></div>	19%	<div><div></div></div>	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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