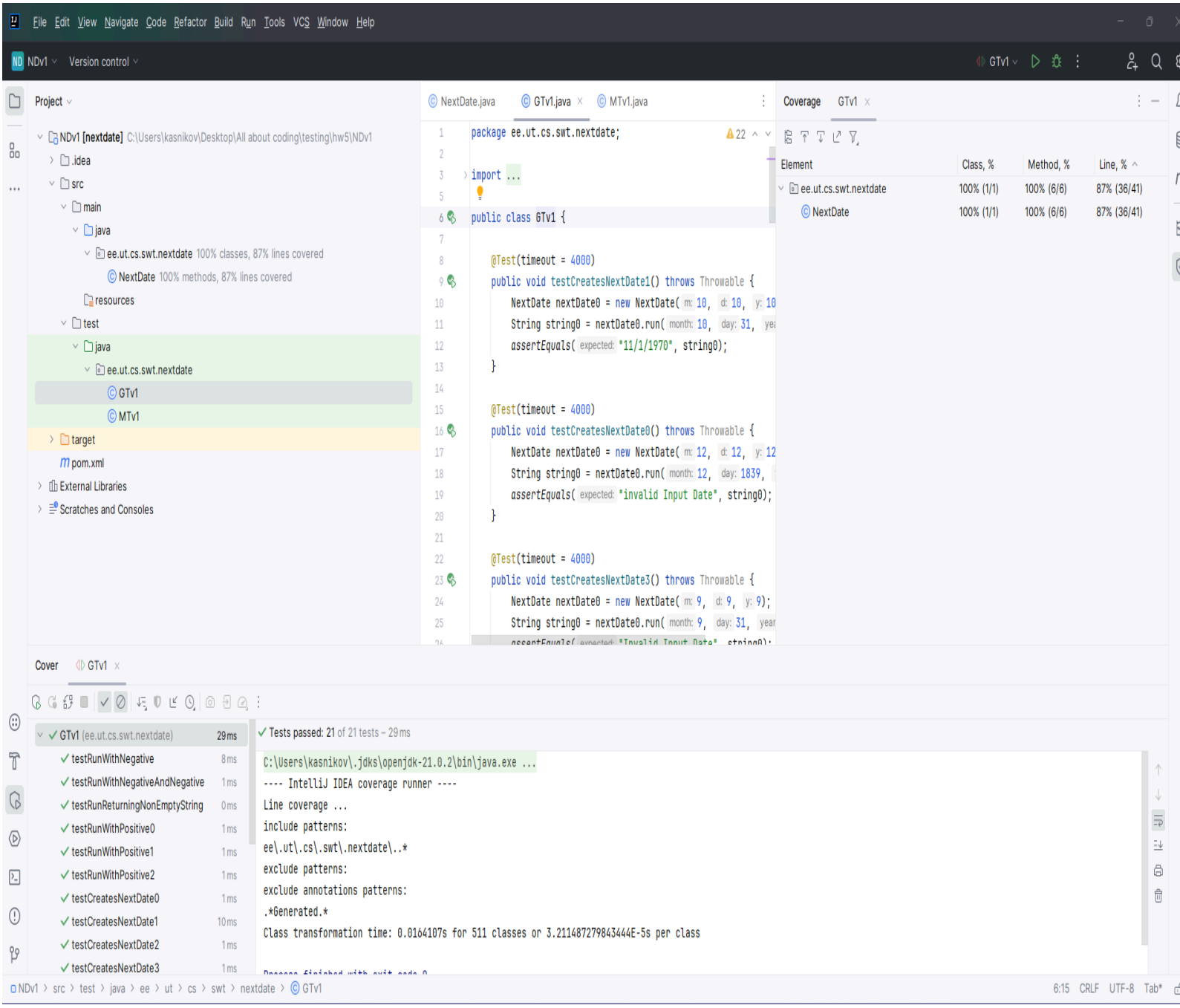
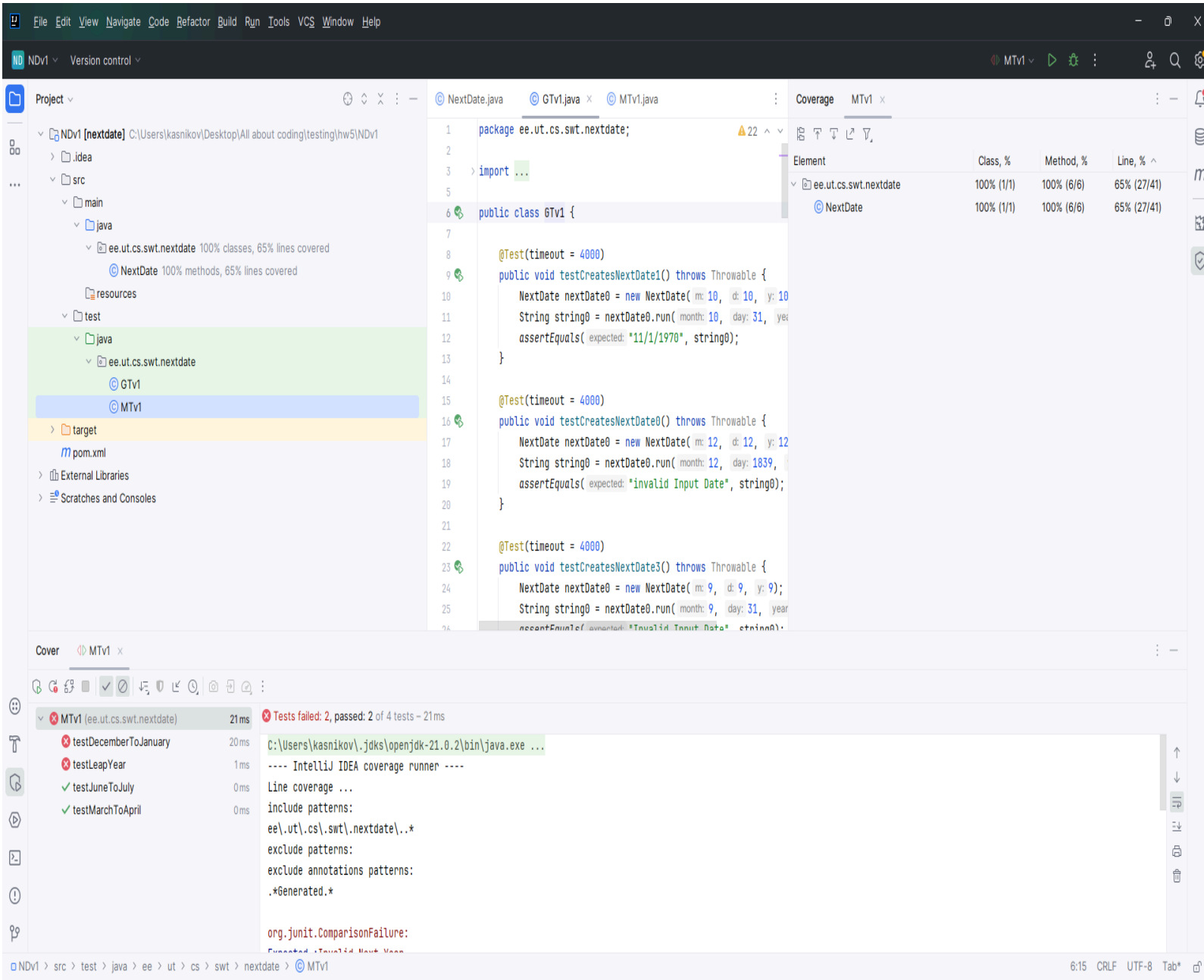
Task 1

GTv1 screenshot

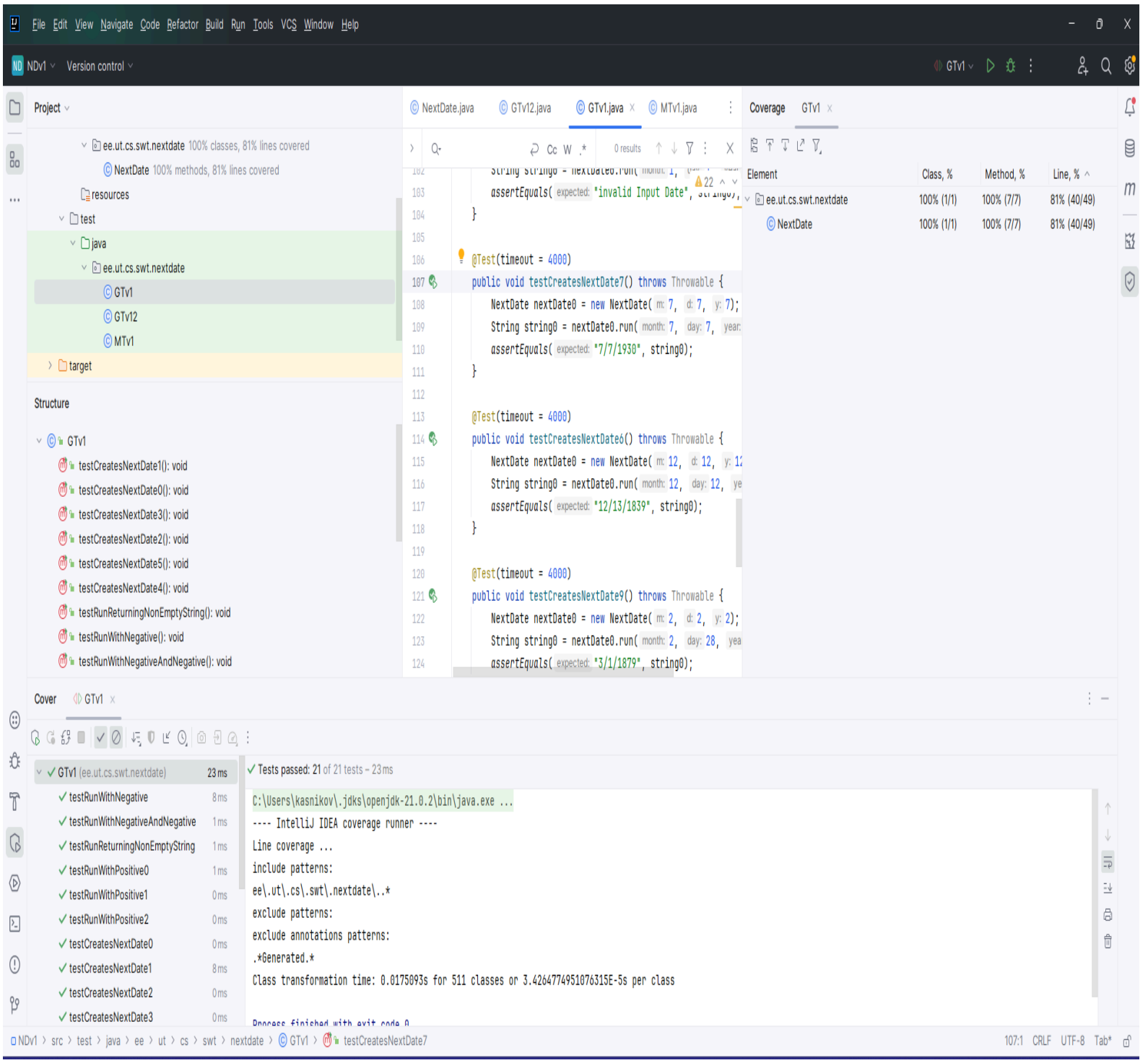


MTv1 screenshot

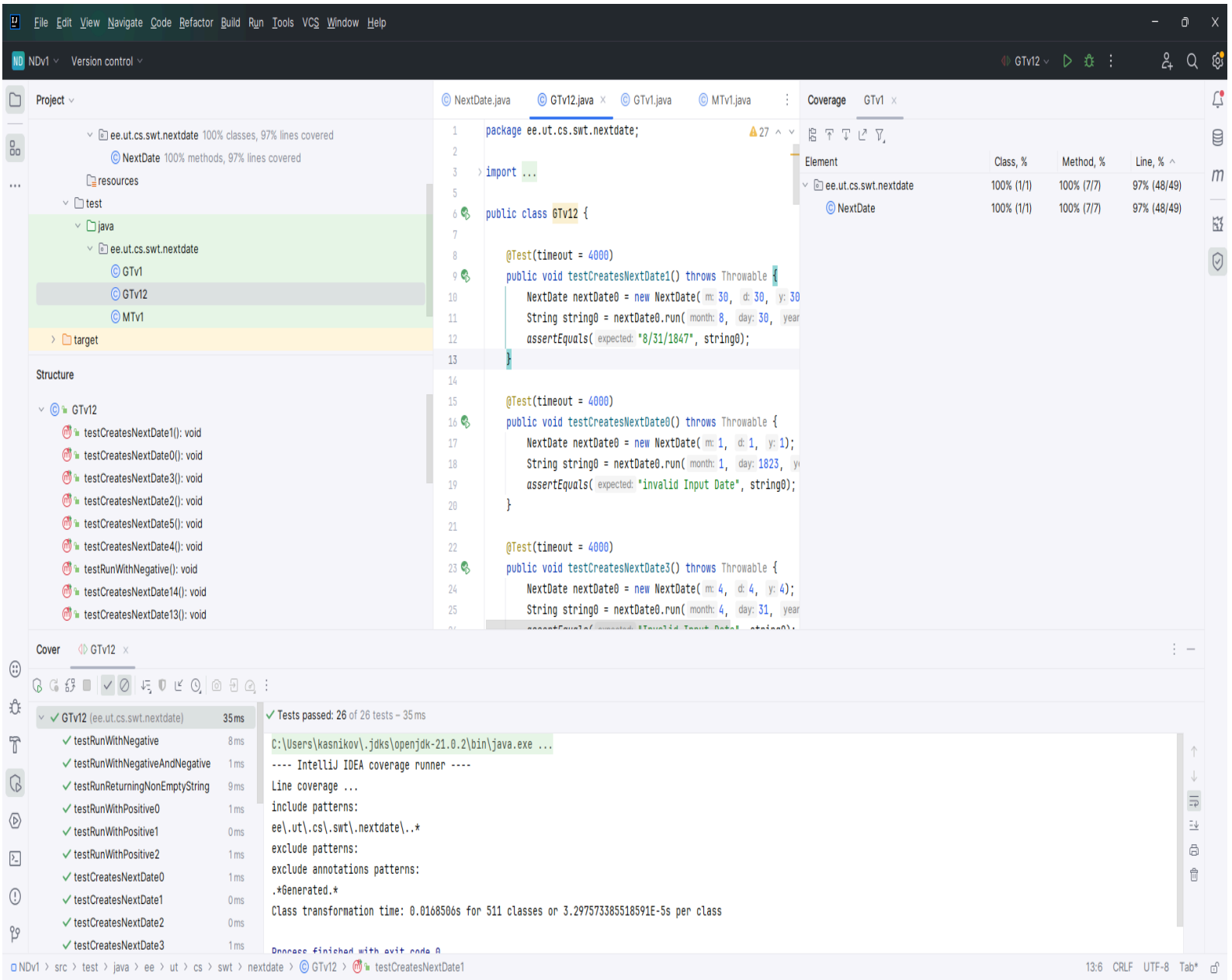


Task 2, screenshots

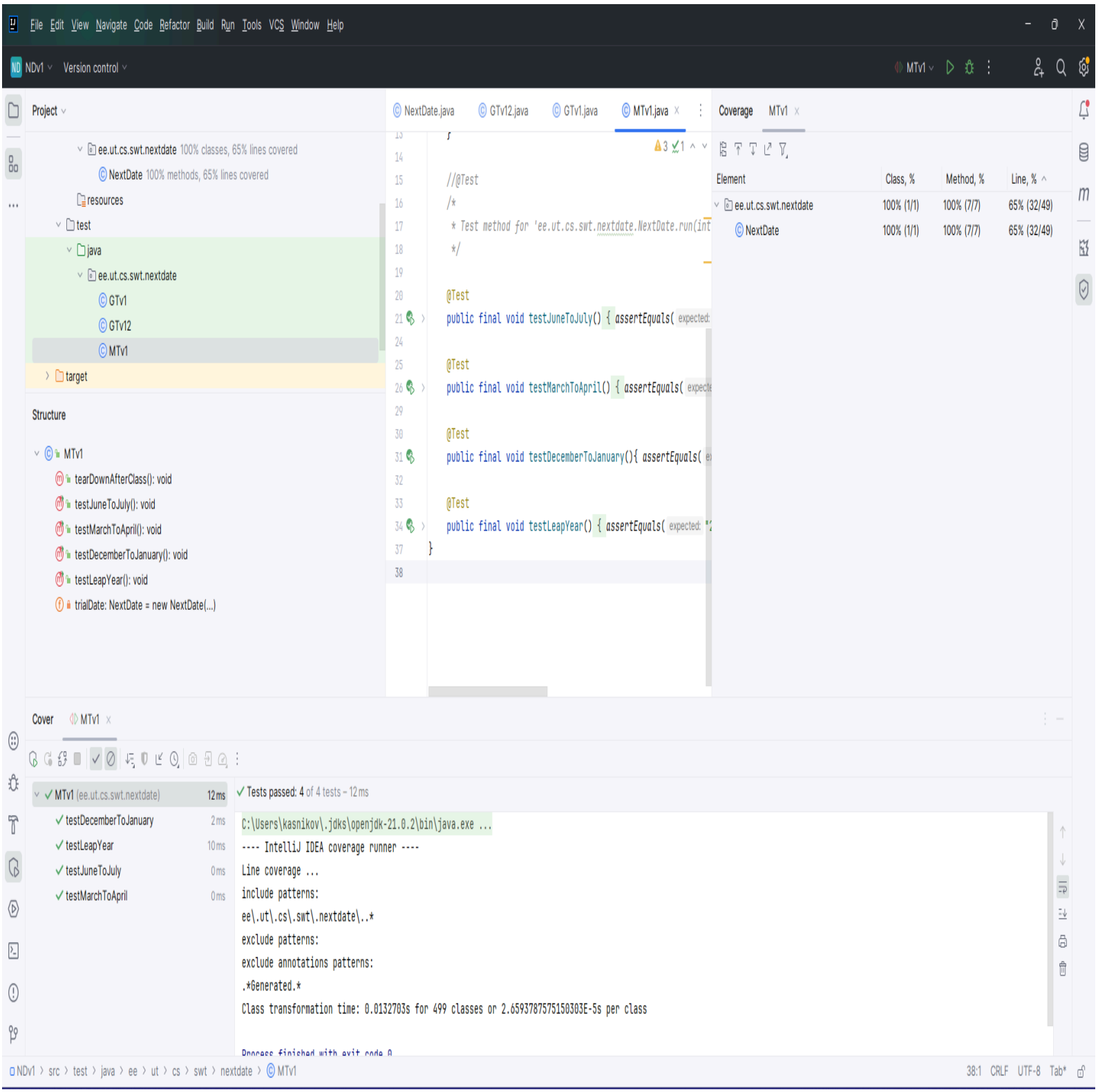
GTv1



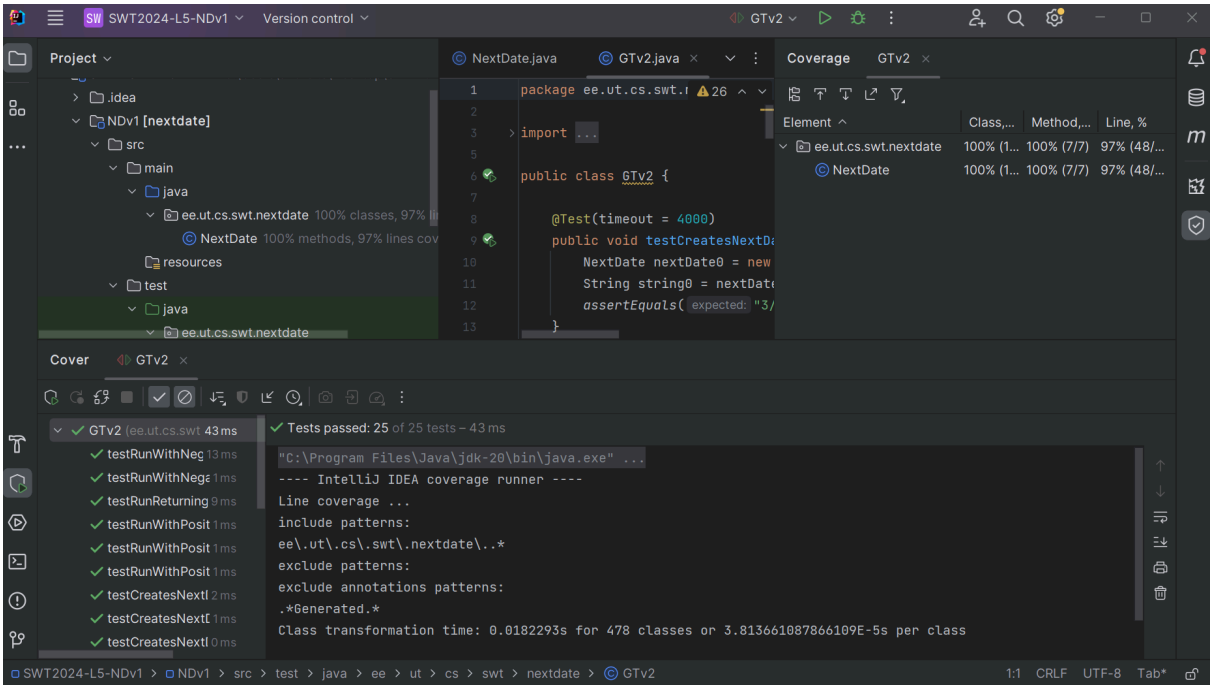
GTv12


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
NDv1 Version control
GTv12
Project
ee.ut.cs.swt.nextdate 100% classes, 97% lines covered
NextDate 100% methods, 97% lines covered
resources
test
java
ee.ut.cs.swt.nextdate
GTv1
GTv12
MTv1
target
Structure
GTv12
testCreatesNextDate1(): void
testCreatesNextDate0(): void
testCreatesNextDate3(): void
testCreatesNextDate2(): void
testCreatesNextDate5(): void
testCreatesNextDate4(): void
testRunWithNegative(): void
testCreatesNextDate14(): void
testCreatesNextDate13(): void
NextDate.java
GTv12.java
GTv1.java
MTv1.java
package ee.ut.cs.swt.nextdate;
import ...
public class GTv12 {
@Test(timeout = 4000)
public void testCreatesNextDate1() throws Throwable {
NextDate nextDate0 = new NextDate(m: 30, d: 30, y: 30
String string0 = nextDate0.run(month: 8, day: 30, year
assertEquals(expected: "8/31/1847", string0);
}
@Test(timeout = 4000)
public void testCreatesNextDate0() throws Throwable {
NextDate nextDate0 = new NextDate(m: 1, d: 1, y: 1);
String string0 = nextDate0.run(month: 1, day: 1823,
assertEquals(expected: "invalid Input Date", string0);
}
@Test(timeout = 4000)
public void testCreatesNextDate3() throws Throwable {
NextDate nextDate0 = new NextDate(m: 4, d: 4, y: 4);
String string0 = nextDate0.run(month: 4, day: 31, year
Coverage
GTv1
Element
Class, %
Method, %
Line, %
ee.ut.cs.swt.nextdate
100% (1/1)
100% (7/7)
97% (48/49)
NextDate
100% (1/1)
100% (7/7)
97% (48/49)
Cover
GTv12
GTv12 (ee.ut.cs.swt.nextdate) 35 ms
testRunWithNegative 8 ms
testRunWithNegativeAndNegative 1 ms
testRunReturningNonEmptyString 9 ms
testRunWithPositive0 1 ms
testRunWithPositive1 0 ms
testRunWithPositive2 1 ms
testCreatesNextDate0 1 ms
testCreatesNextDate1 0 ms
testCreatesNextDate2 0 ms
testCreatesNextDate3 1 ms
Tests passed: 26 of 26 tests – 35 ms
C:\Users\kasnikov\.jdks\openjdk-21.0.2\bin\java.exe ...
---- IntelliJ IDEA coverage runner ----
Line coverage ...
include patterns:
ee\.ut\.cs\.swt\.nextdate\..*
exclude patterns:
exclude annotations patterns:
.*Generated.*
Class transformation time: 0.0168506s for 511 classes or 3.297573385518591E-5s per class
NDv1 › src › test › java › ee › ut › cs › swt › nextdate › GTv12 › testCreatesNextDate1
13:6 CRLF UTF-8 Tab*

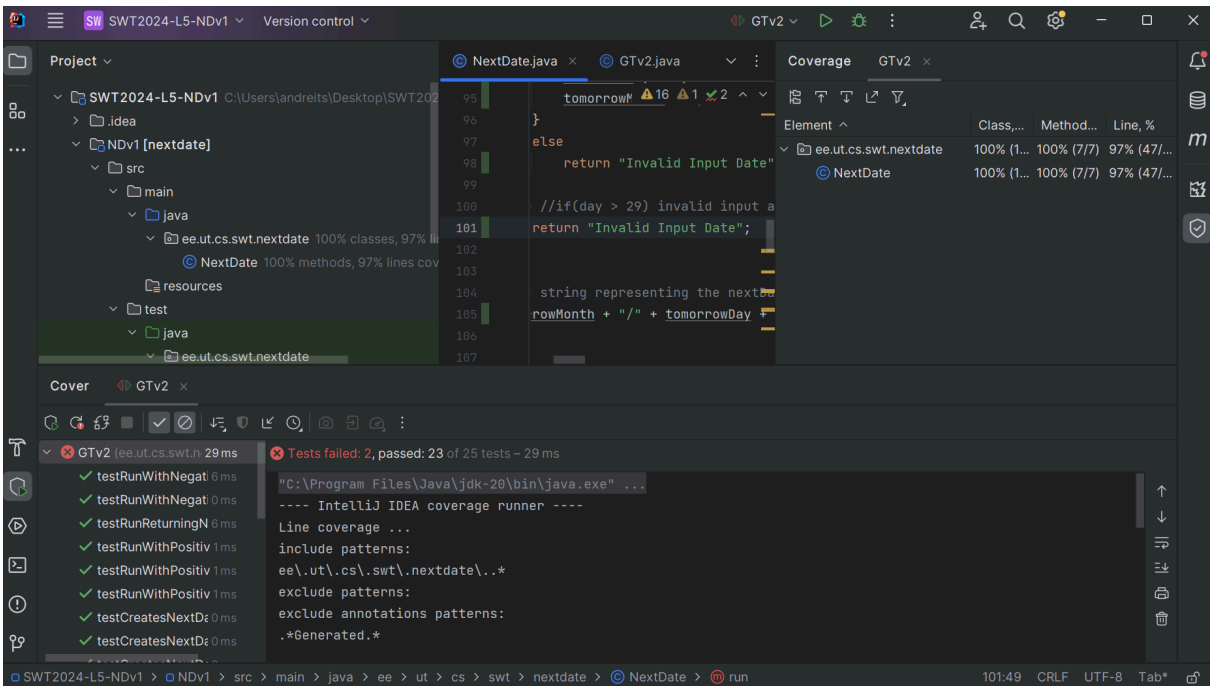
MTv1


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
NDv1
Version control
MTv1
Project
ee.ut.cs.swt.nextdate 100% classes, 65% lines covered
NextDate 100% methods, 65% lines covered
resources
test
java
ee.ut.cs.swt.nextdate
GTv1
GTv12
MTv1
target
Structure
MTv1
tearDownAfterClass(): void
testJuneToJuly(): void
testMarchToApril(): void
testDecemberToJanuary(): void
testLeapYear(): void
trialDate: NextDate = new NextDate(...)
NextDate.java
GTv12.java
GTv1.java
MTv1.java
//@Test
/*
* Test method for 'ee.ut.cs.swt.nextdate.NextDate.run(int
*/
@Test
public final void testJuneToJuly() { assertEquals(expected:
@Test
public final void testMarchToApril() { assertEquals(expecte
@Test
public final void testDecemberToJanuary(){ assertEquals(e
@Test
public final void testLeapYear() { assertEquals(expected: "
}
Coverage
MTv1
Element
Class, %
Method, %
Line, %
ee.ut.cs.swt.nextdate
100% (1/1)
100% (7/7)
65% (32/49)
NextDate
100% (1/1)
100% (7/7)
65% (32/49)
Cover
MTv1
MTv1 (ee.ut.cs.swt.nextdate) 12 ms
testDecemberToJanuary 2 ms
testLeapYear 10 ms
testJuneToJuly 0 ms
testMarchToApril 0 ms
Tests passed: 4 of 4 tests – 12 ms
C:\Users\kasnikov\.jdks\openjdk-21.0.2\bin\java.exe ...
---- IntelliJ IDEA coverage runner ----
Line coverage ...
include patterns:
ee\.ut\.cs\.swt\.nextdate\..*
exclude patterns:
exclude annotations patterns:
.*Generated.*
Class transformation time: 0.0132703s for 499 classes or 2.6593787575150303E-5s per class
NDv1 › src › test › java › ee › ut › cs › swt › nextdate › MTv1
38:1 CRLF UTF-8 Tab*

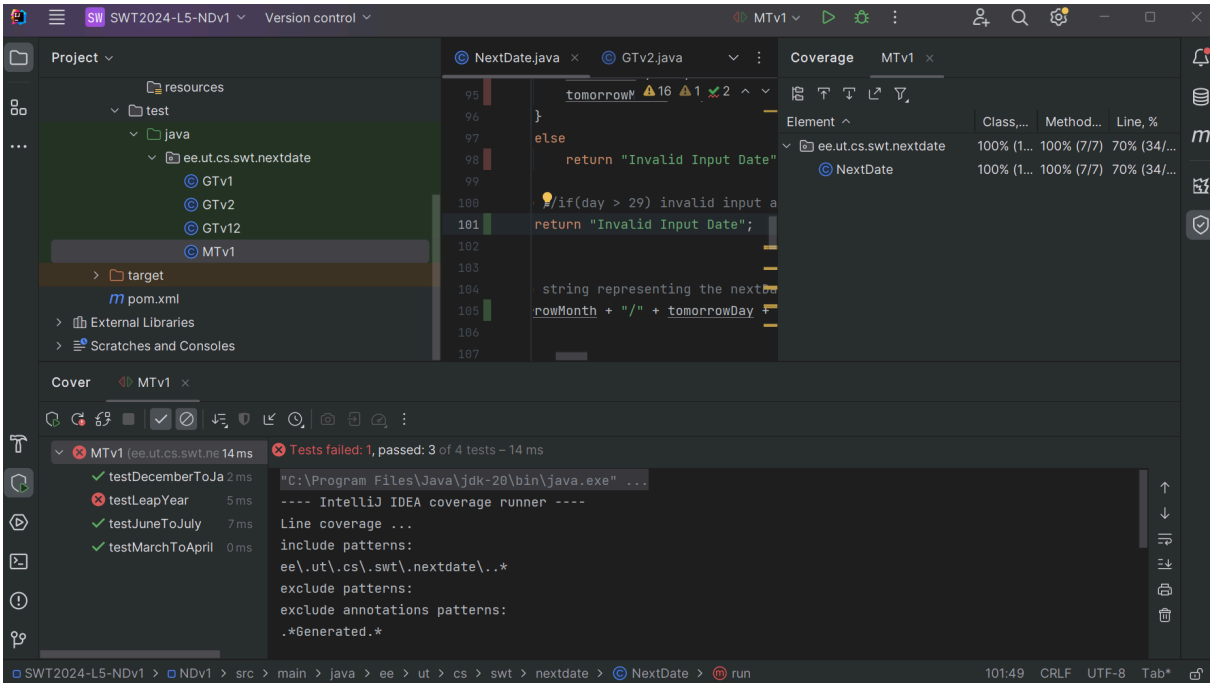
Task 3
GTv2



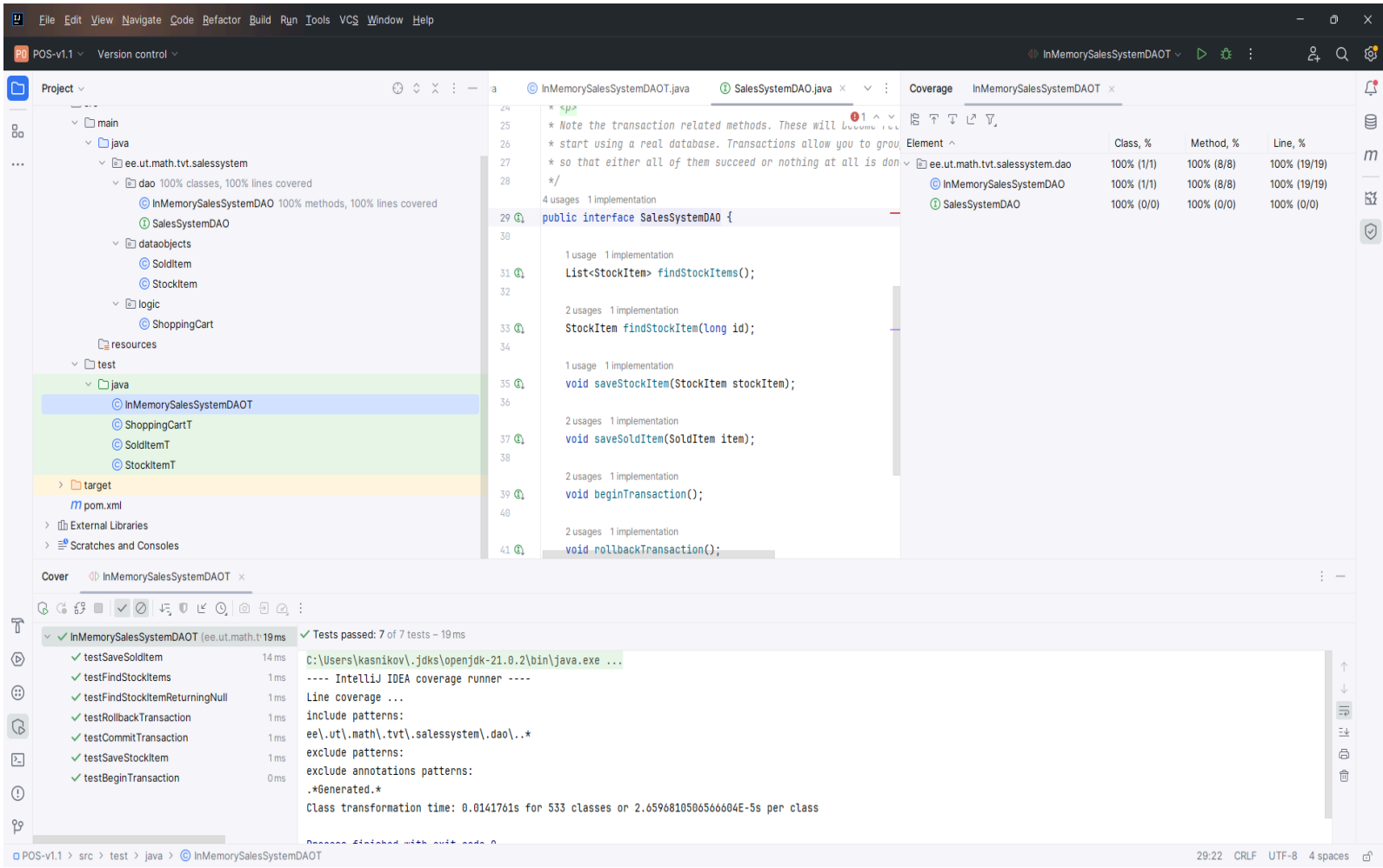
Task 4
GTv2



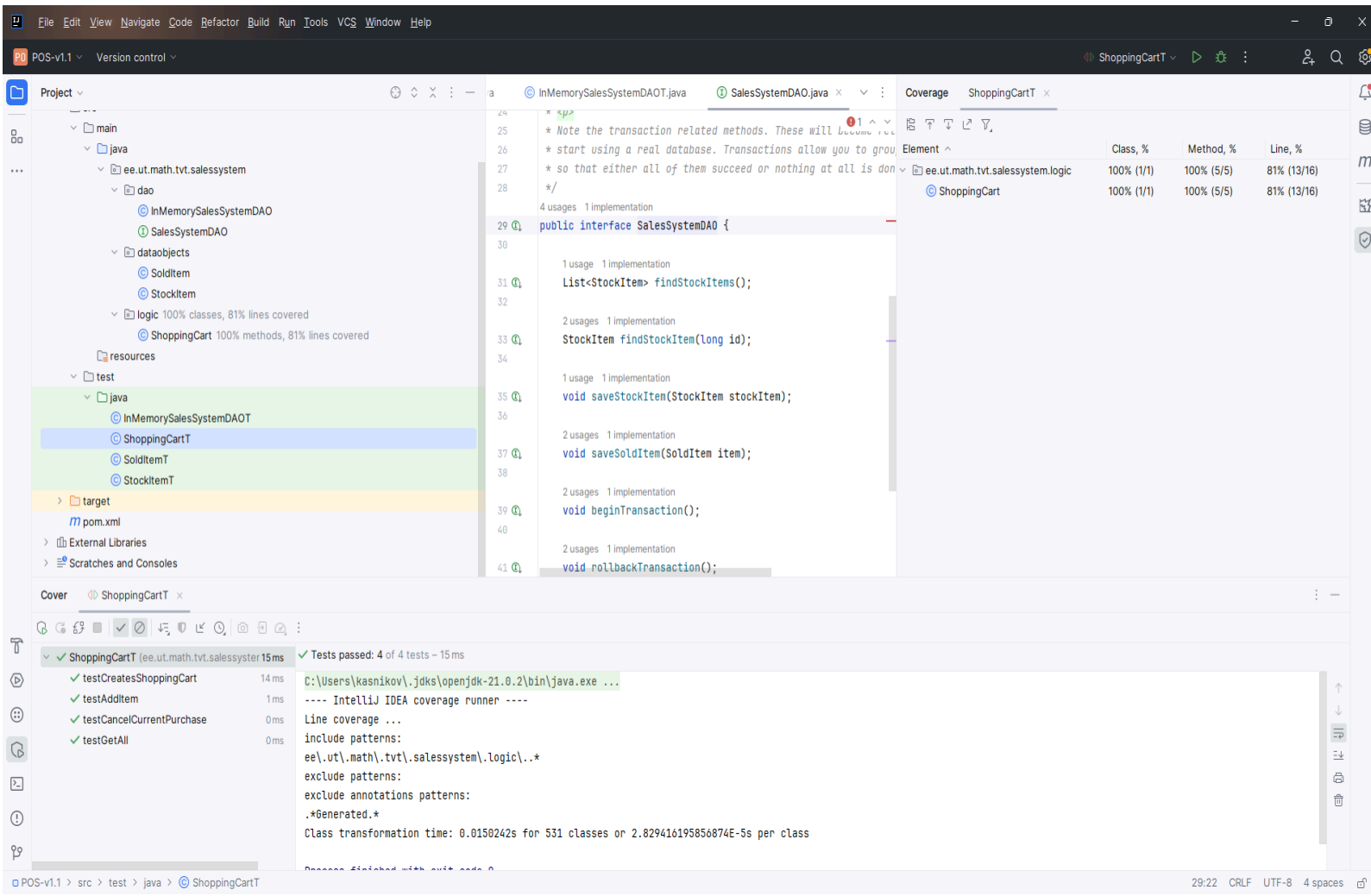
MTv1


SWT2024-L5-NDv1
Version control
MTv1
Project
resources
test
java
ee.ut.cs.swt.nextdate
GTv1
GTv2
GTv12
MTv1
target
pom.xml
External Libraries
Scratches and Consoles
NextDate.java
GTv2.java
tomorrowM
}
else
return "Invalid Input Date"
//if(day > 29) invalid input a
return "Invalid Input Date";
string representing the nextDa
rowMonth + "/" + tomorrowDay +
Coverage
MTv1
Element
Class,...
Method...
Line, %
ee.ut.cs.swt.nextdate
100% (1...
100% (7/7)
70% (34/...
NextDate
100% (1...
100% (7/7)
70% (34/...
Cover
MTv1
MTv1 (ee.ut.cs.swt.ne 14 ms
testDecemberToJa 2 ms
testLeapYear 5 ms
testJuneToJuly 7 ms
testMarchToApril 0 ms
Tests failed: 1, passed: 3 of 4 tests – 14 ms
"C:\Program Files\Java\jdk-20\bin\java.exe" ...
---- IntelliJ IDEA coverage runner ----
Line coverage ...
include patterns:
ee\.ut\.cs\.swt\.nextdate\..*
exclude patterns:
exclude annotations patterns:
.*Generated.*
SWT2024-L5-NDv1 › NDv1 › src › main › java › ee › ut › cs › swt › nextdate › NextDate › run
101:49
CRLF
UTF-8
Tab*

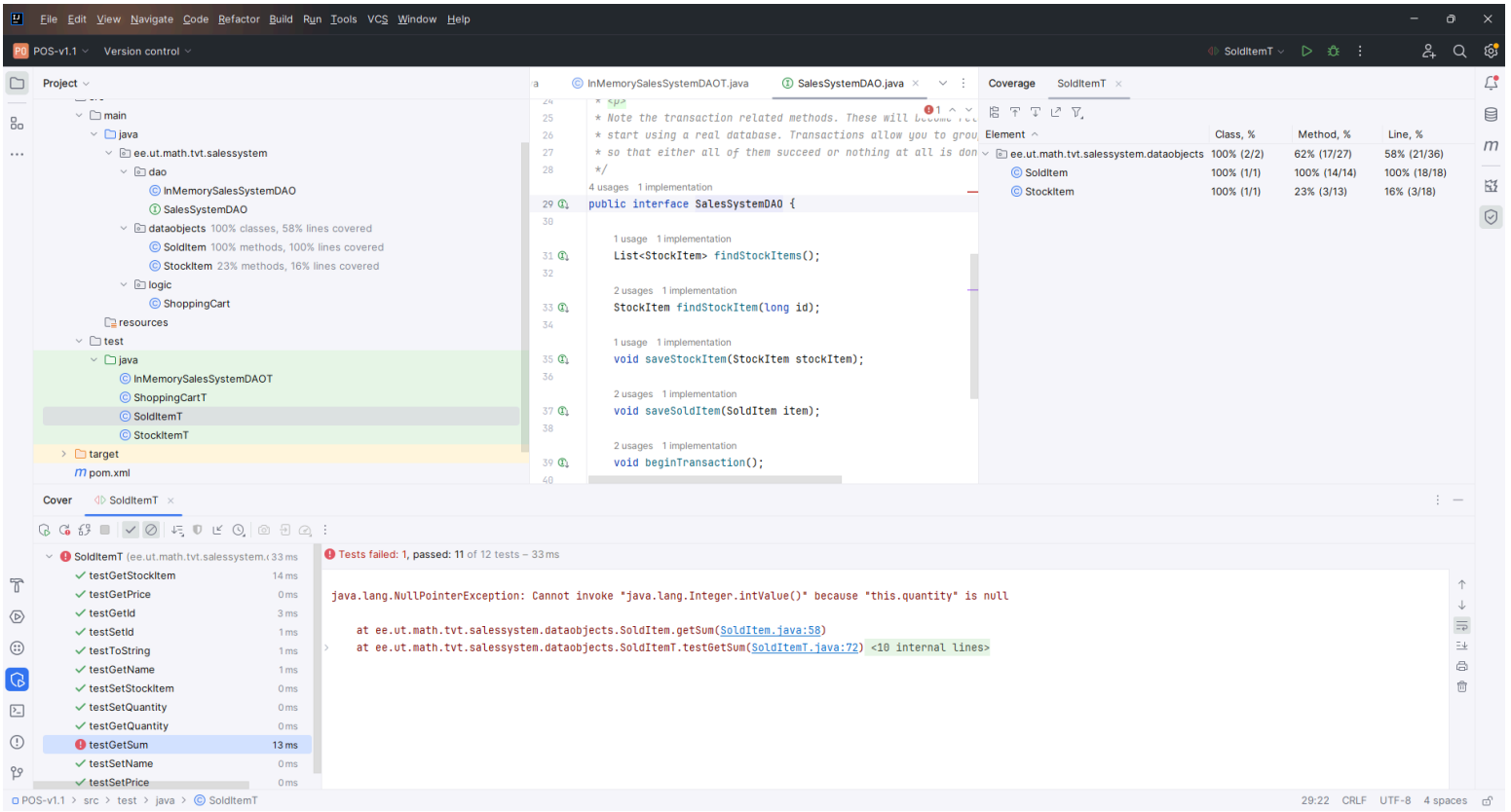
Task 5
InMemorySalesSystemDaoT



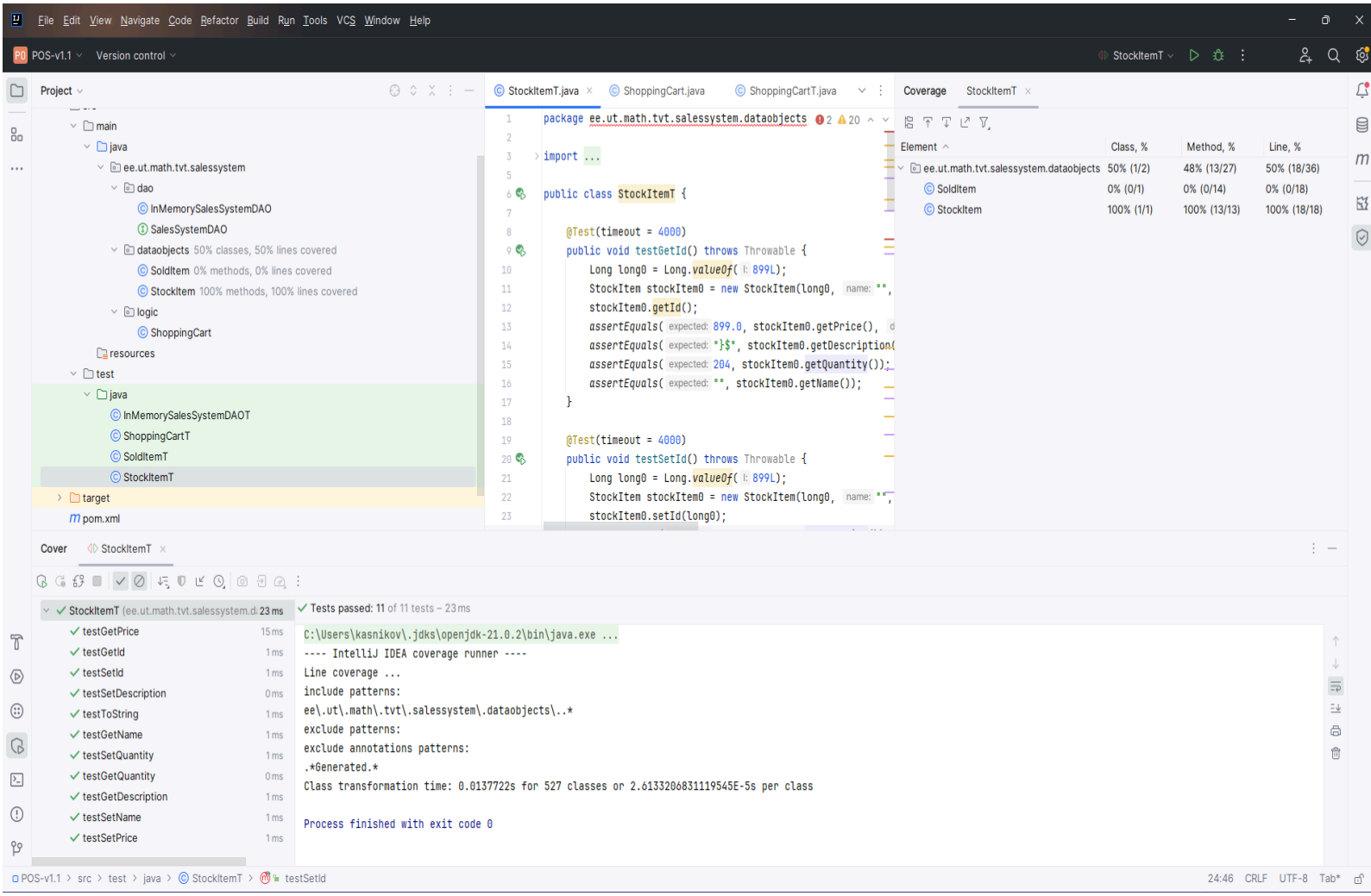
ShoppingCartT



SoldItemT


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
POS-v1.1
Version control
SoldItemT
Project
main
java
ee.ut.math.tvt.salessystem
dao
InMemorySalesSystemDAO
SalesSystemDAO
dataobjects 100% classes, 58% lines covered
SoldItem 100% methods, 100% lines covered
StockItem 23% methods, 16% lines covered
logic
ShoppingCart
resources
test
java
InMemorySalesSystemDAOT
ShoppingCartT
SoldItemT
StockItemT
target
pom.xml
InMemorySalesSystemDAOT.java
SalesSystemDAO.java
* Note the transaction related methods. These will become
* start using a real database. Transactions allow you to grou
* so that either all of them succeed or nothing at all is don
*/
4 usages 1 implementation
public interface SalesSystemDAO {
1 usage 1 implementation
List<StockItem> findStockItems();
2 usages 1 implementation
StockItem findStockItem(long id);
1 usage 1 implementation
void saveStockItem(StockItem stockItem);
2 usages 1 implementation
void saveSoldItem(SoldItem item);
2 usages 1 implementation
void beginTransaction();
Coverage
SoldItemT
Element
Class, %
Method, %
Line, %
ee.ut.math.tvt.salessystem.dataobjects 100% (2/2) 62% (17/27) 58% (21/36)
SoldItem 100% (1/1) 100% (14/14) 100% (18/18)
StockItem 100% (1/1) 23% (3/13) 16% (3/18)
Cover
SoldItemT
SoldItemT (ee.ut.math.tvt.salessystem.(33 ms
testGetStockItem 14 ms
testGetPrice 0 ms
testGetId 3 ms
testSetId 1 ms
testToString 1 ms
testGetName 1 ms
testSetStockItem 0 ms
testSetQuantity 0 ms
testGetQuantity 0 ms
testGetSum 13 ms
testSetName 0 ms
testSetPrice 0 ms
Tests failed: 1, passed: 11 of 12 tests – 33 ms
java.lang.NullPointerException: Cannot invoke "java.lang.Integer.intValue()" because "this.quantity" is null
at ee.ut.math.tvt.salessystem.dataobjects.SoldItem.getSum(SoldItem.java:58)
at ee.ut.math.tvt.salessystem.dataobjects.SoldItemT.testGetSum(SoldItemT.java:72) <10 internal lines>
POS-v1.1 > src > test > java > SoldItemT
29:22 CRLF UTF-8 4 spaces

StockItemT


File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
POS-v1.1
Version control
StockItemT
Project
main
java
ee.ut.math.tvt.salessystem
dao
InMemorySalesSystemDAO
SalesSystemDAO
dataobjects 50% classes, 50% lines covered
SoldItem 0% methods, 0% lines covered
StockItem 100% methods, 100% lines covered
logic
ShoppingCart
resources
test
java
InMemorySalesSystemDAOT
ShoppingCartT
SoldItemT
StockItemT
target
pom.xml
StockItemT.java
ShoppingCart.java
ShoppingCartT.java
package ee.ut.math.tvt.salessystem.dataobjects
import ...
public class StockItemT {
@Test(timeout = 4000)
public void testGetId() throws Throwable {
Long long0 = Long.valueOf(l: 899L);
StockItem stockItem0 = new StockItem(long0, name: "",
stockItem0.getId();
assertEquals(expected: 899.0, stockItem0.getPrice(),
assertEquals(expected: "}$", stockItem0.getDescription(
assertEquals(expected: 204, stockItem0.getQuantity());
assertEquals(expected: "", stockItem0.getName());
}
@Test(timeout = 4000)
public void testSetId() throws Throwable {
Long long0 = Long.valueOf(l: 899L);
StockItem stockItem0 = new StockItem(long0, name: "",
stockItem0.setId(long0);
Coverage
StockItemT
Element
Class, %
Method, %
Line, %
ee.ut.math.tvt.salessystem.dataobjects 50% (1/2) 48% (13/27) 50% (18/36)
SoldItem 0% (0/1) 0% (0/14) 0% (0/18)
StockItem 100% (1/1) 100% (13/13) 100% (18/18)
Cover
StockItemT
StockItemT (ee.ut.math.tvt.salessystem.d 23 ms
testGetPrice 15 ms
testGetId 1 ms
testSetId 1 ms
testSetDescription 0 ms
testToString 1 ms
testGetName 1 ms
testSetQuantity 1 ms
testGetQuantity 0 ms
testGetDescription 1 ms
testSetName 1 ms
testSetPrice 1 ms
Tests passed: 11 of 11 tests – 23 ms
C:\Users\kasnikov\.jdks\openjdk-21.0.2\bin\java.exe ...
---- IntelliJ IDEA coverage runner ----
Line coverage ...
include patterns:
ee\.ut\.math\.tvt\.salessystem\.dataobjects\..*
exclude patterns:
exclude annotations patterns:
.*Generated.*
Class transformation time: 0.0137722s for 527 classes or 2.6133206831119545E-5s per class
Process finished with exit code 0
POS-v1.1 › src › test › java › StockItemT › testSetId
24:46 CRLF UTF-8 Tab*