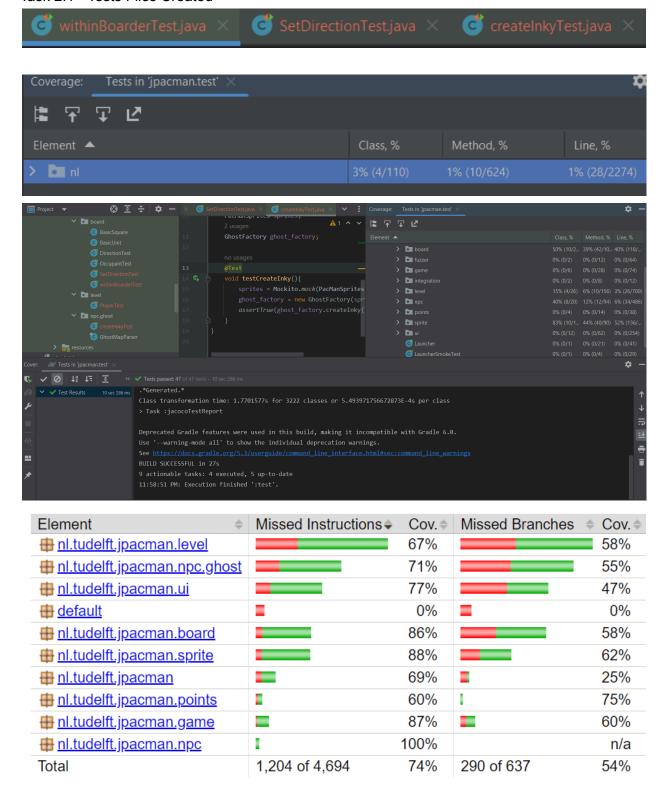
Task 2.1 - Tests Files Created



Task 3:

The coverage results between intelliJ and JaCoCo are vastly different. You can see that the JaCoCo tracks bytecode instruction and statement branches, while intelliJ tracks each line. I find that JaCoCo's visualization is very helpful because it shows which statements have been covered and which have not been tested. I favor JaCoCo's coverage because it is a more specific version of the intelliJ. I like the feature that highlights statements as well.

Task 4:

```
def test_from_dict(self):
    """ Test account dict"""
    data = ACCOUNT_DATA[self.rand] # get a random account
    account = Account(**data)
    account.from_dict(data)
    result = account.to_dict()
    self.assertEqual(account.name, result["name"])

new *

def test_update(self):
    """ Test account update"""
    data = ACCOUNT_DATA[self.rand] # get a random account
    account = Account(**data)
    with self.assertRaises(models.account.DataValidationError):
        account.update()
        account.update()
        account.update()
        result = account.to_dict()
        self.assertEqual(account.name, result["name"])
```

```
def test_delete(self):
    """ Test account deletion """
    data = ACCOUNT_DATA[self.rand] # get a random account
    account = Account(**data)
    account.create()
    account.delete()
    self.assertEqual(len(Account.all()), second: 0)

new *

def test_find(self):
    """ Test finding"""
    data = ACCOUNT_DATA[self.rand]
    account = Account(**data)
    account.create()
    self.assertEqual(Account.find(account.id), account)
```

```
Name Stmts Miss Cover Missing
------
models\__init__.py 7 0 100%
models\account.py 40 0 100%
-----
TOTAL 47 0 100%
-----
Ran 8 tests in 1.467s
```

Task 5: Added test for POST and PUT.

```
def test_update_a_counter(self):
    """Test update counter. POST, PUT, GET"""

# Create Counter doo
    self.setUp()
    result = self.client.post('/counters/doo')
    self.assertEqual(result.status_code, status.HTTP_201_CREATED)
    self.assertEqual(COUNTERS.get('doo'), second: 0)

#Increment doo by 1
    result = self.client.put('/counters/doo')
    self.assertEqual(result.status_code, status.HTTP_200_OK)
    self.assertEqual(COUNTERS.get('doo'), second: 1)
```

Added PUT

```
new *

@app.route( rule: '/counters/<name>', methods=['PUT'])

def update_counter(name):
    """Update a counter"""
    app.logger.info(f"Request to update counter: {name}")
    global COUNTERS
    COUNTERS[name] = COUNTERS[name] + 1
    return {name: COUNTERS[name]}, status.HTTP_200_0K
```

- Test update counter. POST, PUT, GET				
Name	Stmts	Miss	Cover	Missing
<pre>src\counter.py</pre>	16	0	100%	
src\status.py	6	0	100%	
TOTAL	22	0	100%	
Ran 3 tests in 0.519s				

Added GET and test for GET

```
@app.route( rule: '/counters/<name>', methods=['GET'])

def read_counter(name):
    """Read a counter"""
    app.logger.info(f"Request to read counter: {name}")
    global COUNTERS
    return {name: COUNTERS[name]}, status.HTTP_200_0K
#Read doo
```

```
#Read doo
result = self.client.get('/counters/doo')
self.assertEqual(result.status_code, status.HTTP_200_0K)
self.assertEqual(COUNTERS.get('doo'), second: 1)
```