

Q1:

The output of the sample code would be:

I'm in method B
I'm in method C
I'm in method E
I'm in method A
I'm in method D

Here's how TestNG determines the execution order:

- Methods with explicit priority values are executed in ascending order of their priority (lower values run first)
- Methods without explicit priority have a default priority of 0
- If multiple methods have the same priority, they are executed alphabetically by method name

Analyzing each method:

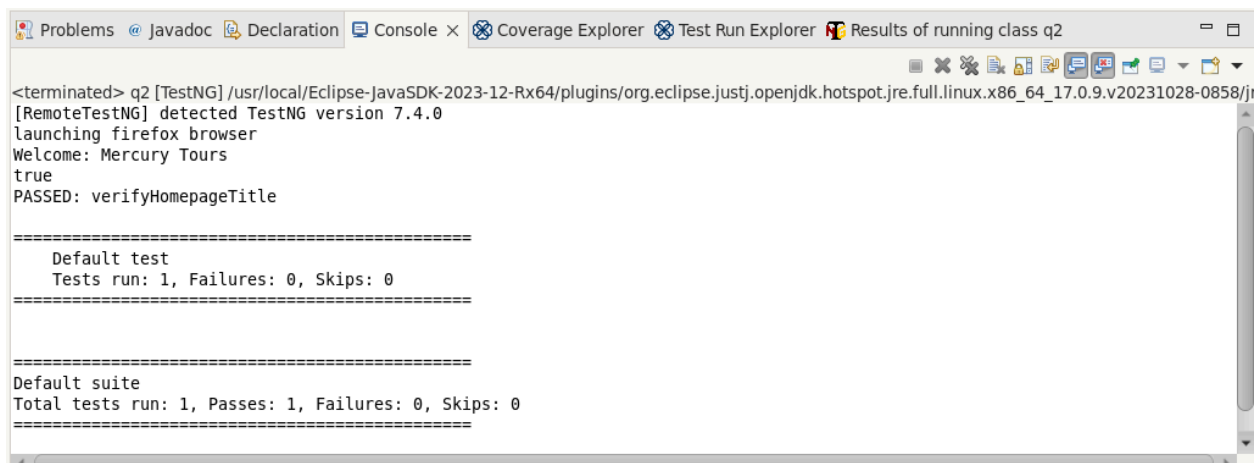
- c_method(): No explicit priority, so it has default priority 0
- b_method(): No explicit priority, so it has default priority 0
- a_method(): Explicit priority 6
- e_method(): Explicit priority 0
- d_method(): Explicit priority 6

Therefore, the execution order will be:

- b_method() (priority 0, alphabetically first)
- c_method() (priority 0, alphabetically second)
- e_method() (priority 0, alphabetically third)
- a_method() (priority 6, alphabetically first)
- d_method() (priority 6, alphabetically second)

Q2:

Followed the lab manual to launch the WebDriver and used getTitle() to verify the website's title. Since TestNG was not specified, I used .equals() from the String class instead.



```
<terminated> q2 [TestNG] /usr/local/Eclipse-JavaSDK-2023-12-Rx64/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_17.0.9.v20231028-0858/j
[RemoteTestNG] detected TestNG version 7.4.0
launching firefox browser
Welcome: Mercury Tours
true
PASSED: verifyHomepageTitle

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```

Problems @ Javadoc Declaration Console Coverage Explorer Test Run Explorer Results of running class q2

Search: Passed: 1 Failed: 0 Skipped: 0 Tests: 1/1 Methods: 1 (7875 ms)

All Tests Failed Tests Summary

Default suite (1/0/0/0) (7.676 s)

- Default test (7.676 s)
 - assignments.q2
 - verifyHomepageTitle (7.676 s)

Failure Exception

Q3:

Problems @ Javadoc Declaration Console Coverage Explorer Test Run Explorer Results of running class q3

<terminated> q3 [TestNG] /usr/local/Eclipse-JavaSDK-2023-12-Rx64/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_17.0.9.v20231028-0858/j
[RemoteTestNG] detected TestNG version 7.4.0
Tag name of email field: input
PASSED: verifyEmailFieldName

=====

Default test
Tests run: 1, Failures: 0, Skips: 0

=====

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

=====

Search: Passed: 1 Failed: 0 Skipped: 0 Tests: 1/1 Methods: 1 (8151 ms)

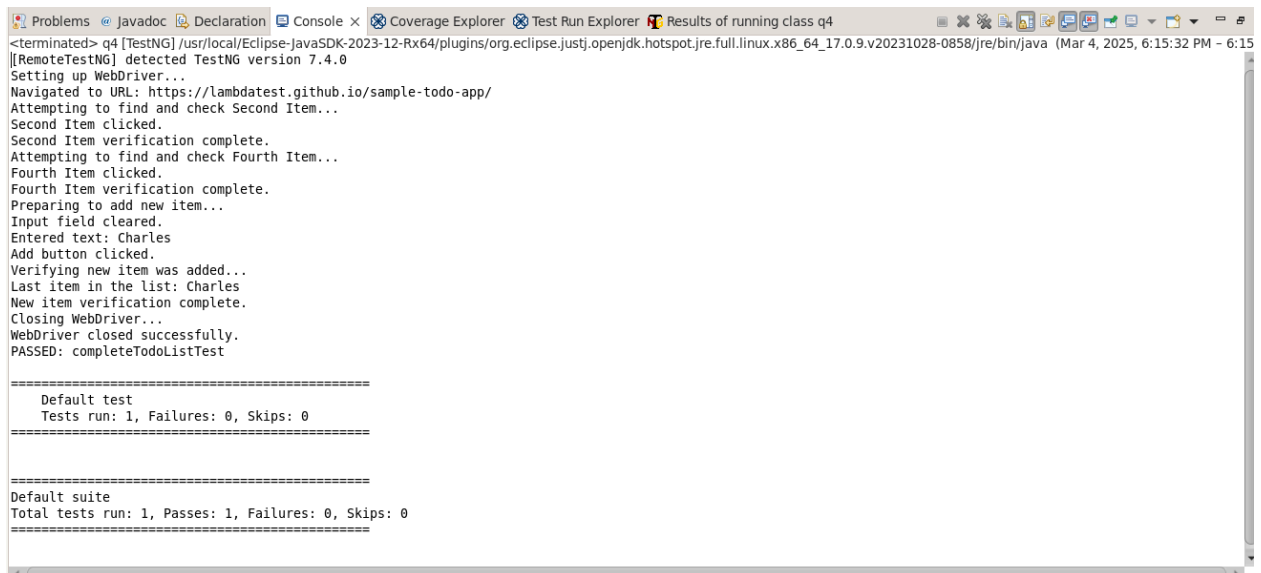
All Tests Failed Tests Summary

Default suite (1/0/0/0) (0.041 s)

- Default test (0.041 s)
 - assignments.q3
 - verifyEmailFieldName (0.041 s)

Failure Exception

Q4:

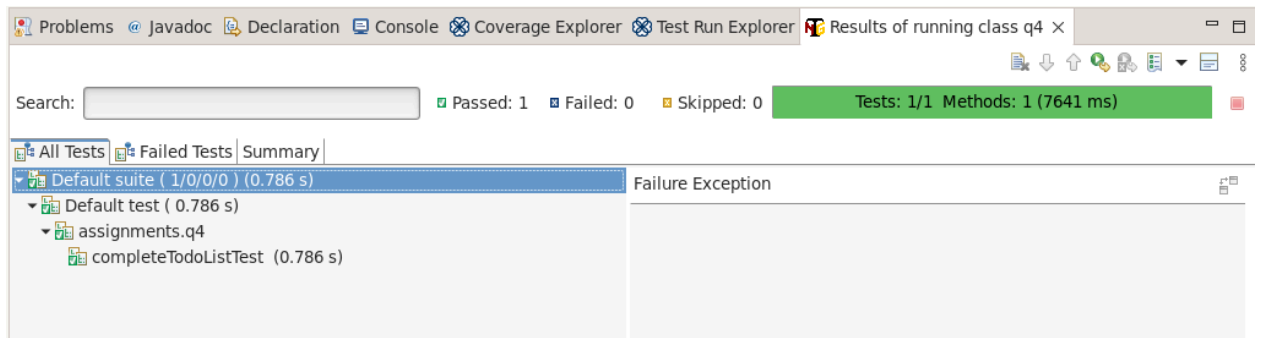


The screenshot shows the Eclipse IDE console with the following output:

```
<terminated> q4 [TestNG] /usr/local/Eclipse-JavaSDK-2023-12-Rx64/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_17.0.9.v20231028-0858/jre/bin/java (Mar 4, 2025, 6:15:32 PM - 6:15:32 PM)
[RemoteTestNG] detected TestNG version 7.4.0
Setting up WebDriver...
Navigated to URL: https://lambdatest.github.io/sample-todo-app/
Attempting to find and check Second Item...
Second Item clicked.
Second Item verification complete.
Attempting to find and check Fourth Item...
Fourth Item clicked.
Fourth Item verification complete.
Preparing to add new item...
Input field cleared.
Entered text: Charles
Add button clicked.
Verifying new item was added...
Last item in the list: Charles
New item verification complete.
Closing WebDriver...
WebDriver closed successfully.
PASSED: completeTodoListTest

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```

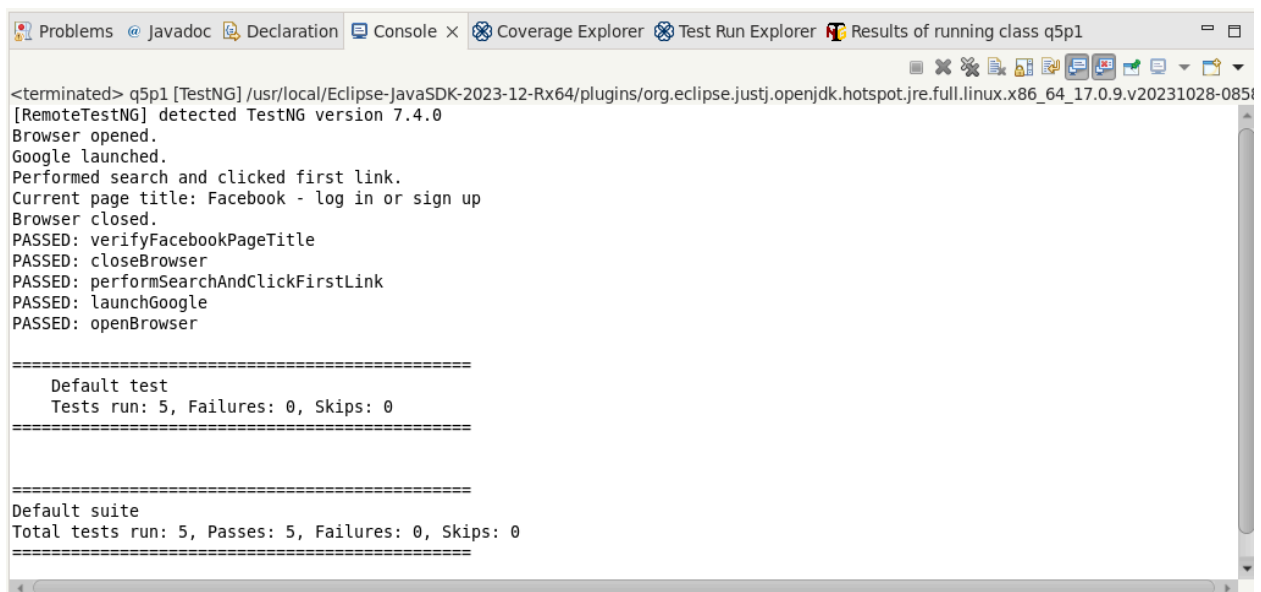


The screenshot shows the Eclipse IDE Test Run Explorer with the following details:

- Search:
- Passed: 1, Failed: 0, Skipped: 0
- Tests: 1/1 Methods: 1 (7641 ms)
- Test Run Explorer tree:
 - Default suite (1/0/0/0) (0.786 s)
 - Default test (0.786 s)
 - assignments.q4
 - completeTodoListTest (0.786 s)
- Failure Exception: (Empty)

Q5:

Part 1:



The screenshot shows the Eclipse IDE console with the following output:

```
<terminated> q5p1 [TestNG] /usr/local/Eclipse-JavaSDK-2023-12-Rx64/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_17.0.9.v20231028-0858/jre/bin/java (Mar 4, 2025, 6:15:32 PM - 6:15:32 PM)
[RemoteTestNG] detected TestNG version 7.4.0
Browser opened.
Google launched.
Performed search and clicked first link.
Current page title: Facebook - log in or sign up
Browser closed.
PASSED: verifyFacebookPageTitle
PASSED: closeBrowser
PASSED: performSearchAndClickFirstLink
PASSED: launchGoogle
PASSED: openBrowser

=====
Default test
Tests run: 5, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 5, Passes: 5, Failures: 0, Skips: 0
=====
```

Problems Javadoc Declaration Console Coverage Explorer Test Run Explorer Results of running class q5p1 X

Search: Passed: 5 Failed: 0 Skipped: 0 Tests: 1/1 Methods: 5 (38809 ms)

All Tests Failed Tests Summary

Default suite (5/0/0/0) (38.549 s)

- Default test (38.549 s)
 - assignments.q5p1
 - openBrowser (4.425 s)
 - launchGoogle (1.821 s)
 - performSearchAndClickFirstLink (31.105 s)
 - verifyFacebookPageTitle (0.006 s)
 - closeBrowser (1.192 s)

Failure Exception

Part 2:

Problems Javadoc Declaration Console Coverage Explorer Test Run Explorer Results of running class q5p2 X

<terminated> q5p2 [TestNG] /usr/local/Eclipse-JavaSDK-2023-12-Rx64/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_17.0.9.v20231028-0858
[RemoteTestNG] detected TestNG version 7.4.0
Browser opened.
Google launched.
Performed search and clicked first link.
Current page title: Facebook - log in or sign up
Browser closed.
PASSED: launchGoogle
PASSED: performSearchAndClickFirstLink
PASSED: verifyFacebookPageTitle

=====

Default test
Tests run: 3, Failures: 0, Skips: 0

=====

Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0

=====

Problems Javadoc Declaration Console Coverage Explorer Test Run Explorer Results of running class q5p2 X

Search: Passed: 3 Failed: 0 Skipped: 0 Tests: 1/1 Methods: 3 (39625 ms)

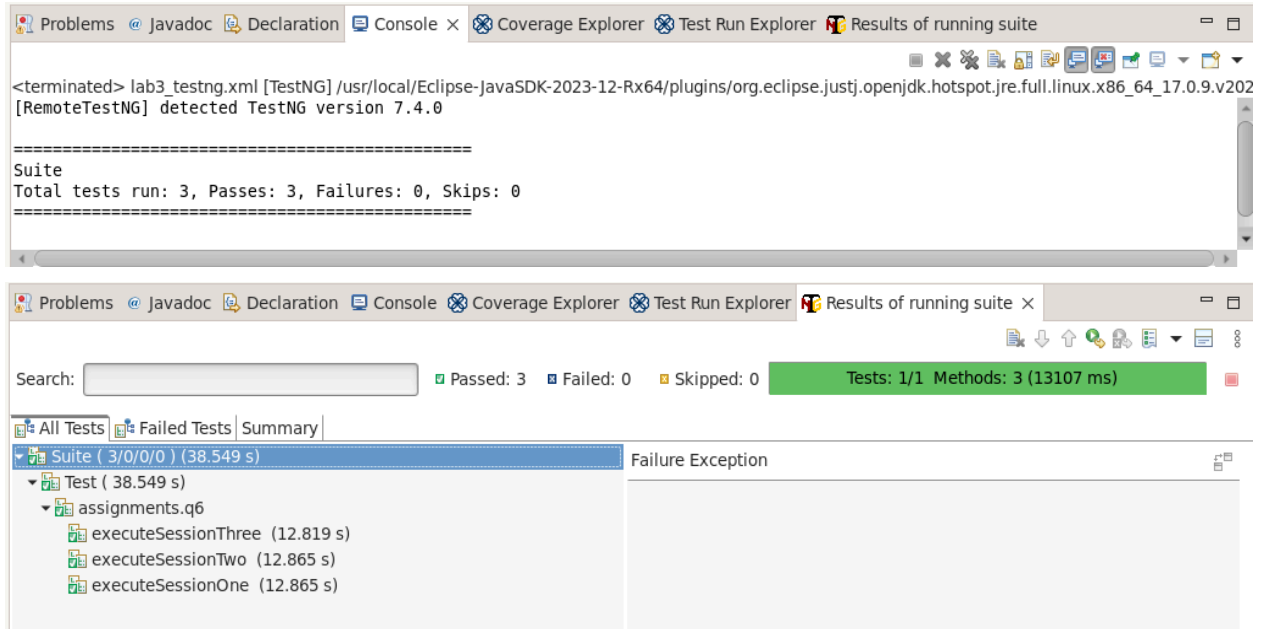
All Tests Failed Tests Summary

Default suite (3/0/0/0) (33.261 s)

- Default test (33.261 s)
 - assignments.q5p2
 - launchGoogle (1.732 s)
 - performSearchAndClickFirstLink (31.519 s)
 - verifyFacebookPageTitle (0.01 s)

Failure Exception

Q6:



Q7:

