

Initialization and Cleanup



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Module Overview



- **Create methods to run prior or after tests**
 - **Decorate methods with special attributes**
 - **Assembly, Class, Test**
- **Initialization methods**
- **Cleanup methods**

All Initialization and Cleanup Attributes

Initialization Attributes

AssemblyInitialize

- Called once for project
- Setup resources for all test classes in assembly

ClassInitialize

- Called once for a class
- Setup resources for all tests within a class

TestInitialize

- Called once for each test method
- Set or reset resources needed for each test

Cleanup Attributes

AssemblyCleanup

- Called once after all tests in assembly have run

ClassCleanup

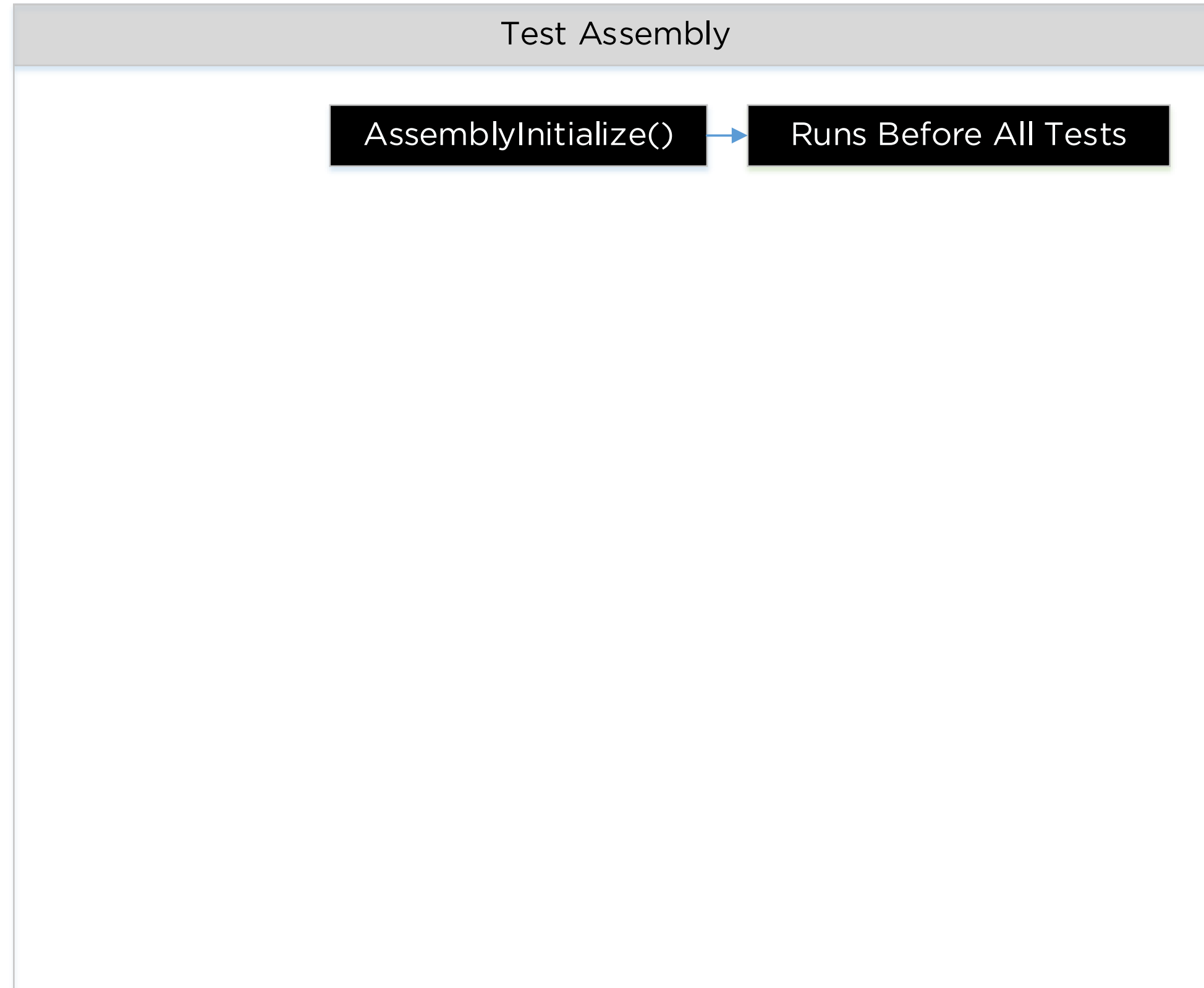
- Called once after all tests in class have run

TestCleanup

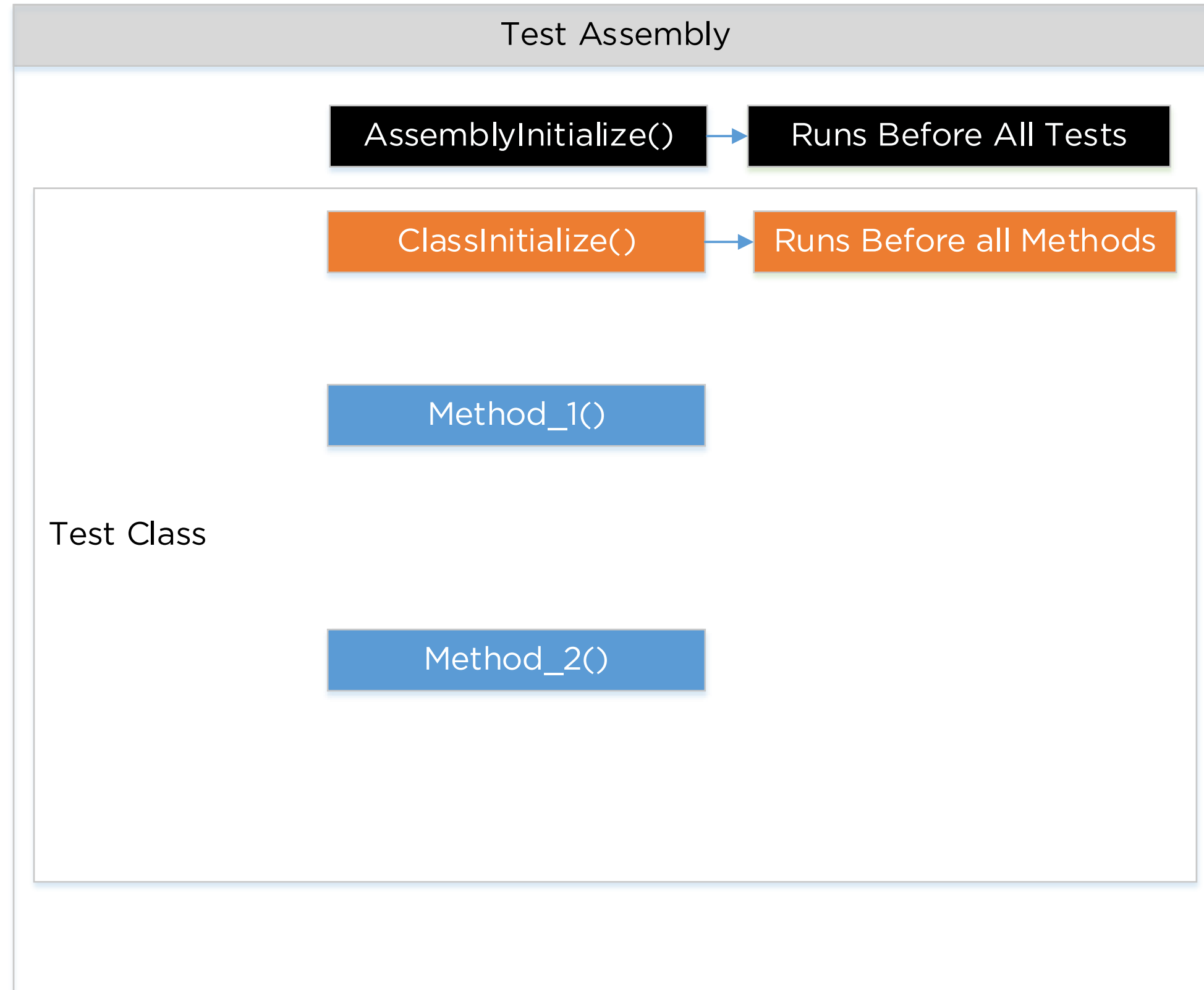
- Called once after each test method has run

Execution Order

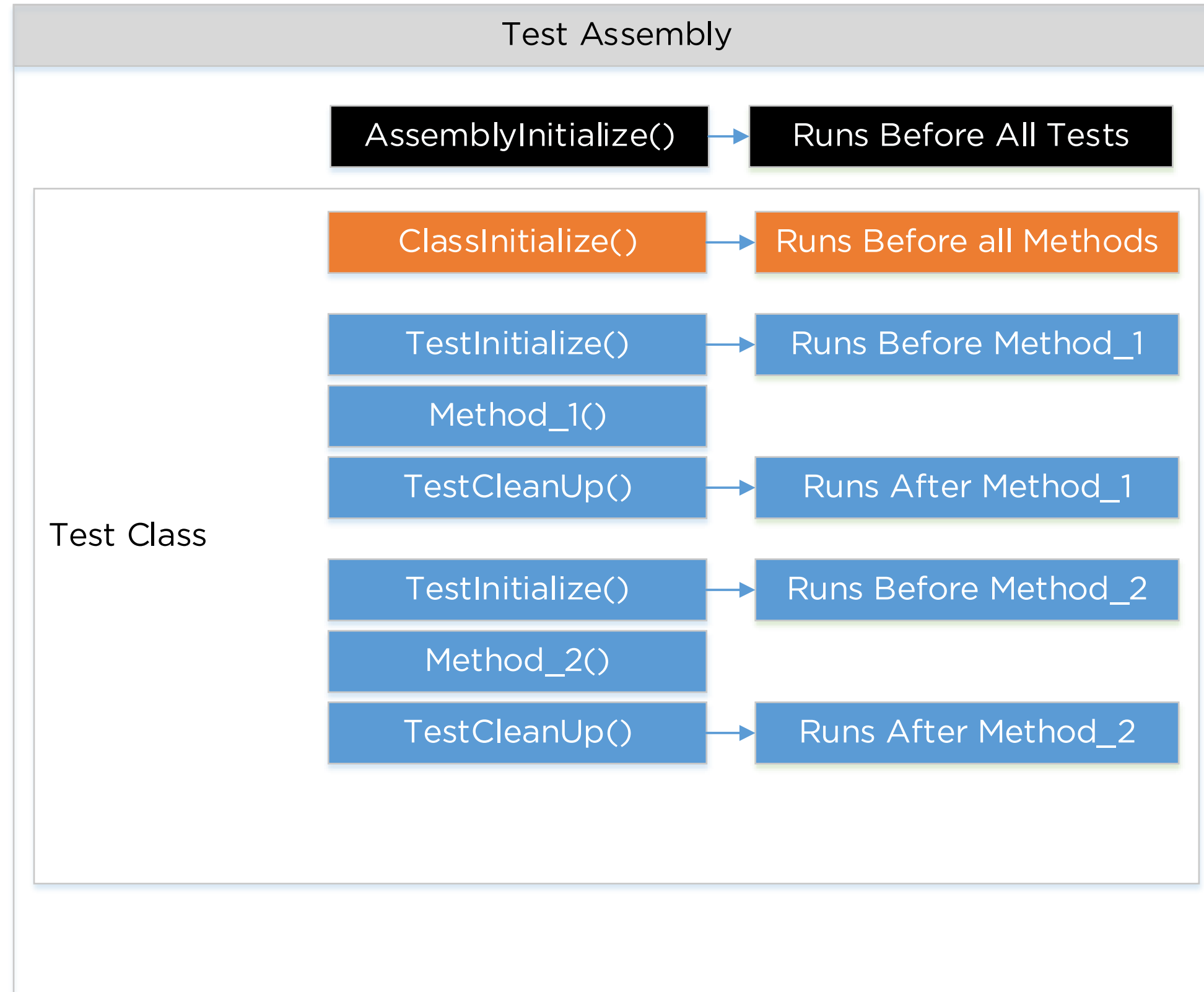
Execution Order



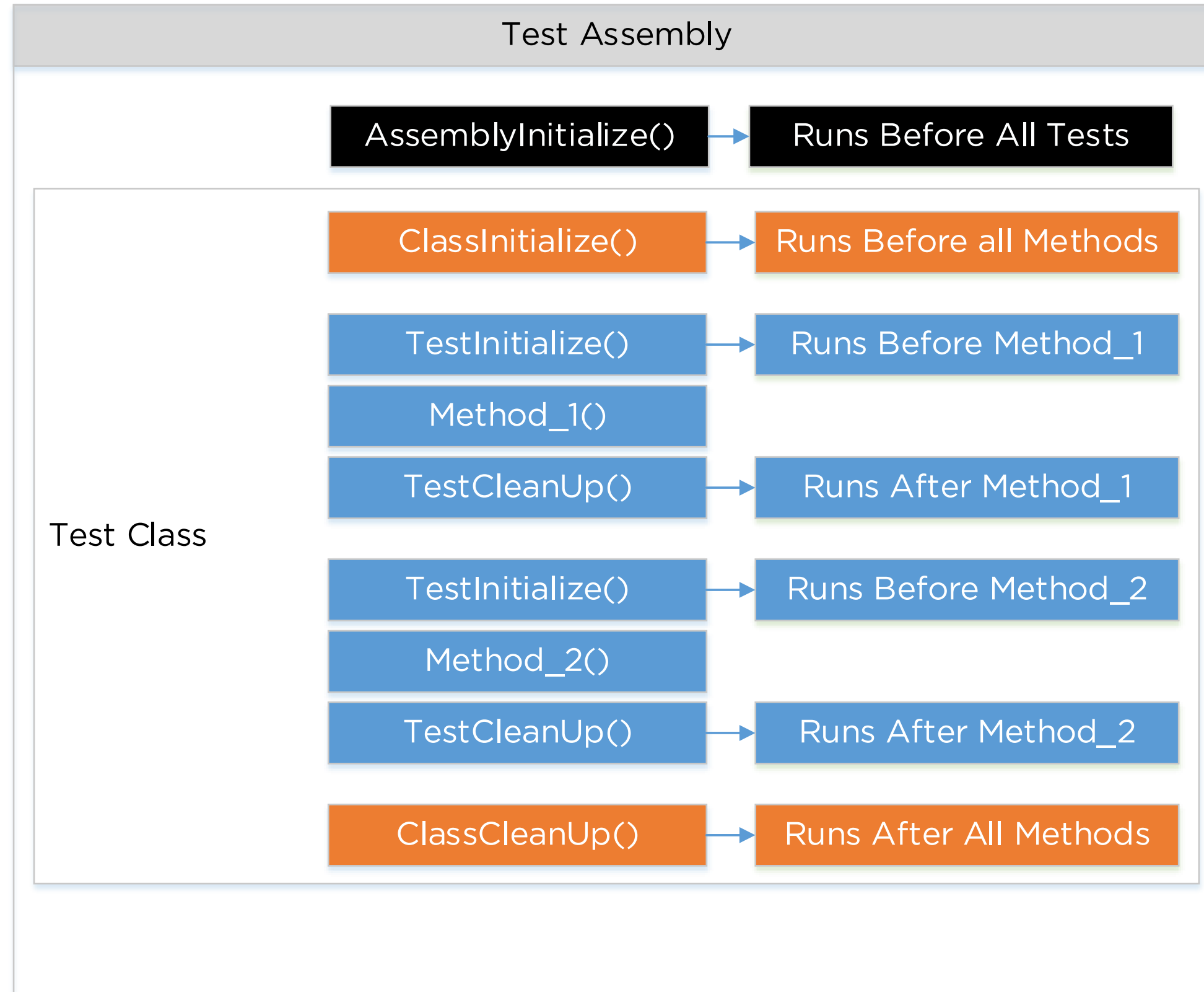
Execution Order



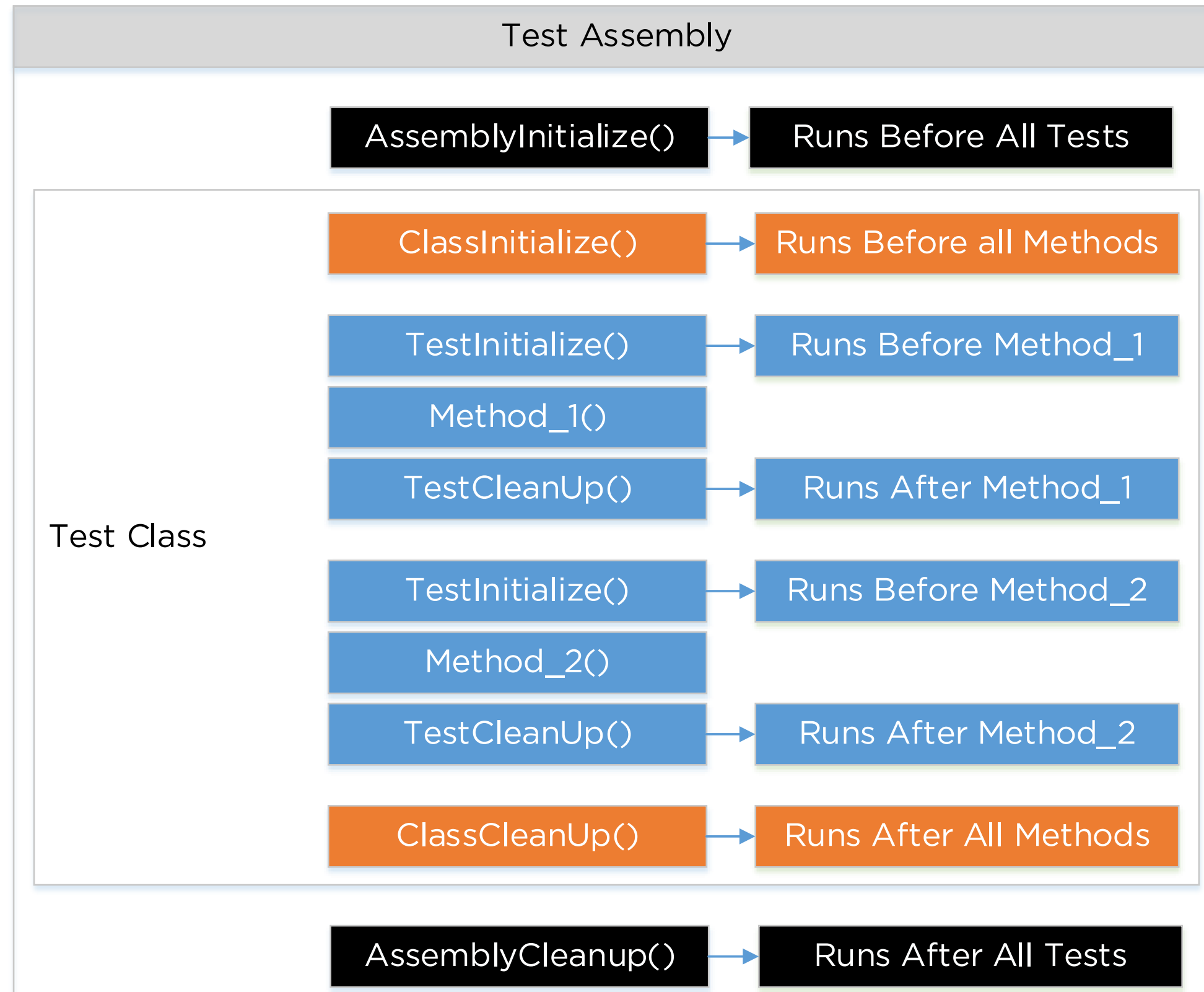
Execution Order



Execution Order



Execution Order



Assembly



Assembly Initialize and Cleanup

Create a separate class

**Decorate methods
with attributes**

**TestContext is passed to Initialize
method**

**Setup resources for all tests
(database, text files, etc.)**

Demo



Assembly initialization and cleanup

Class



Class Initialize and Cleanup

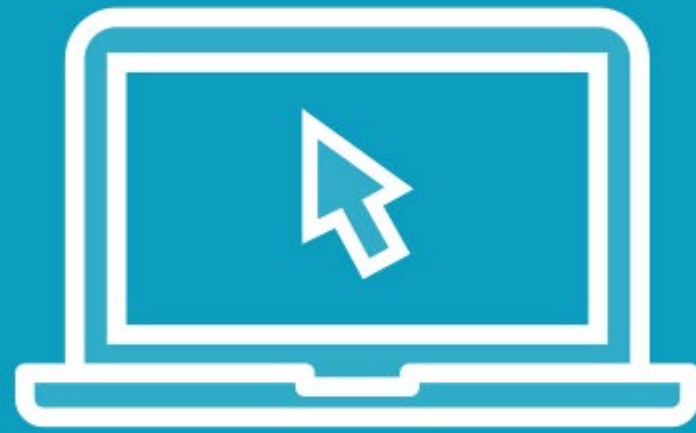
Place into each test class

**Decorate methods
with attributes**

**TestContext is passed to Initialize
method**

**Setup resources for tests in class
(initialize data in tables, set text
in files, etc.)**

Demo



Class initialization and cleanup

Test



Test Initialize and Cleanup

**Add methods into
test class**

**Decorate methods
with attributes**

**Can access
TestContext
property in methods**

**Methods run
before/after
each test**

**TestName property
is filled in**

Demo



Test initialization and cleanup

Module Summary



Attributes for initialization and cleanup

Execution order

TestContext is available in initialization

**Use TestName property for test-specific
setup or teardown**

Up Next:
Attributes Help You Organize Your Unit
Tests
