**Configuration of Scenarios.**

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| **Name** | **Class** | **Scenario** |
| setUpStage1 | QueueTest | A new empty queue is created. |
| SetUpStage2 | QueueTest | A new queue is created, and an object is added. |
| SetUpStage3 | QueueTest | A new queue is created, and three objects are added. |

**Test Case Design.**

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| **Objetivo de la Prueba:** Verify that the queue structure is working correctly. | | | | |
| **Class** | **Method** | **Scenario** | **Input values** | **Expected outcome** |
| Queue | testIsEmpty | setUpStage1 |  | true |
| Queue | testIsEmpty2 | setUpStage2 |  | false |
| Queue | testIsEmpty3 | setUpStage2 | queue.poll() | true |
| Queue | testPeek1 | setUpStage2 | queue.peek() | 1 |
| Queue | testPeek2 | setUpStage3 | queue.peek() | 1 |
| Queue | testPeek3 | setUpStage3 | queue.poll()  queue.peek() | 2 |
| Queue | testOffer1 | setUpStage1 | queue.offer(object)  queue.size() | 1 |
| Queue | testOffer2 | setUpStage2 | queue.offer(object)  queue.offer(object)  queue.size() | 3 |
| Queue | testOffer3 | setUpStage2 | queue.poll()  queue.offer(object) | 1 |
| Queue | testPoll1 | setUpStage2 | queue.poll()  queue.size() | 0 |
| Queue | testPoll2 | setUpStage3 | queue.poll()  queue.size() | 2 |
| Queue | testPoll3 | setUpStage3 | queue.poll()  queue.offer(object)  queue.size() | 3 |
| Queue | testSize1 | setUpStage1 | queue.size() | 0 |
| Queue | testSize2 | setUpStage2 | queue.size() | 1 |
| Queue | testSize3 | setUpStage3 | queue.size() | 3 |
| Queue | testRemove1 | setUpStage1 | queue.remove(object)  queue.size() | 0 |
| Queue | testRemove2 | setUpStage3 | queue.remove(object)  queue.size() | 3 |
| Queue | testRemove3 | setUpStage3 | queue.remove(object1)  queue.peek() | object2 |
| Queue | testRemove4 | setUpStage3 | queue.remove(object3)  queue.peek() | object1 |