**Configuration of Scenarios.**

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

**Test Case Design.**

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| **Objetivo de la Prueba:** Verify that the stack structure is working correctly. | | | | |
| **Class** | **Method** | **Scenario** | **Input values** | **Expected outcome** |
| Stack | testIsEmpty | setUpStage1 |  | true |
| Stack | testIsEmpty2 | setUpStage2 |  | false |
| Stack | testIsEmpty2 | setUpStage2 | stack.pop() | true |
| Stack | testSize1 | setUpStage3 | stack.size() | 3 |
| Stack | testSize2 | setUpStage3 | stack.pop()  stacksize() | 2 |
| Stack | testSize3 | setUpStage2 | stack.pop()  stacksize() | 0 |
| Stack | testPush1 | setUpStage1 | stack.push(object)  stack.size() | 1 |
| Stack | testPush2 | setUpStage3 | stack.size() | 3 |
| Stack | testPush3 | setUpStage2 | stack.pop()  stack.push(object)  stack.size() | 1 |
| Stack | testPop1 | setUpStage2 | stack.pop()  stack.size() | 0 |
| Stack | testPop2 | setUpStage3 | stack.pop()  stack.size() | 2 |
| Stack | testPop3 | setUpStage1 | stack.pop() | null |
| Stack | testPeek1 | setUpStage2 | stack.peek() | 1 |
| Stack | testPeek2 | setUpStage3 | stack.pop()  stack.peek() | 3 |
| Stack | testPeek3 | setUpStage1 | stack.peek() | null |