**Scenario and use case format**

**Scenario configuration**

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| **Name** | **Class** | **Scenario** |
| setupStage1 | HashTableTest | A Node<Integer, String> class object with K=1 and V=”persona1”  A Node<Integer, String> class object with K=456 and V=”persona2”  A Node<Integer, String> class object with K=719 and V=”persona3”  A Node<Integer, String> class object with K=3 and V=”persona4” |
| setupStage2 | HashTableTest | A Node<Integer, String> class object with K=1 and V=”persona1”  A Node<Integer, String> class object with K=456 and V=”persona2”  A Node<Integer, String> class object with K=719 and V=”persona3”  A Node<Integer, String> class object with K=3 and V=”persona4”  A Node<Integer, String> class object with K=523 and V=”persona5”  A Node<Integer, String> class object with K=6455 and V=”persona6”  A Node<Integer, String> class object with K=71 and V=”persona7”  A Node<Integer, String> class object with K=309 and V=”persona8”  A Node<Integer, String> class object with K=864 and V=”persona9”  A Node<Integer, String> class object with K=69 and V=”persona10”  A Node<Integer, String> class object with K=4879 and V=”persona11”  A Node<Integer, String> class object with K=305 and V=”persona12”  A Node<Integer, String> class object with K=956 and V=”persona13”  A Node<Integer, String> class object with K=895 and V=”persona14”  A Node<Integer, String> class object with K=425 and V=”persona15”  A Node<Integer, String> class object with K=532 and V=”persona16” |
| setupStage3 | HashTableTest | A Node<Integer, String> class object with K=1 and V=”persona1”  A Node<Integer, String> class object with K=1 and V=”persona2”  A Node<Integer, String> class object with K=1 and V=”persona3”  A Node<Integer, String> class object with K=1 and V=”persona4” |

**Test cases design**

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| **Test Objective: Verify that objects are added and can be retrieved by their id** | | | | |
| **Clase** | **Método** | **Escenario** | **Valores de Entrada** | **Resultado esperado** |
| HashTable | getValue & add | setupStage1 | K=1,  K=456,  K=719,  K=3. | V=”persona1”,  V=”persona2”,  V=”persona3”,  V=”persona4”. |
| HashTable | getValue & add | setupStage2 | K=1,  K=456,  K=719,  K=3,  K=523,  K=6455,  K=71,  K=309,  K=864,  K=69,  K=4879,  K=305,  K=956,  K=895,  K=425,  K=532. | V=”persona1”,  V=”persona2”,  V=”persona3”,  V=”persona4”,  V=”persona5”,  V=”persona6”,  V=”persona7”,  V=”persona8”,  V=”persona9”,  V=”persona10”,  V=”persona11”,  V=”persona12”,  V=”persona13”,  V=”persona14”,  V=”persona15”,  V=”persona16”. |
| HashTable | getValue & add | setupStage3 | K=1,  K=1,  K=1,  K=1. | V=”persona1”,  V=”persona1”,  V=”persona1”,  V”persona1”. |

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| **Objetivo de la Prueba:** | | | | |
| **Clase** | **Método** | **Escenario** | **Valores de Entrada** | **Resultado esperado** |
| HashTable | remove | setupStage1 | K=1,  K=456,  K=719,  K=3. | “”,  “”,  “”,  “”, |
| HashTable | remove | setupStage2 | K=1,  K=456,  K=719,  K=1,  K=456,  K=719, | “”,  “”,  “”,  “Value not found to delete”,  “Value not found to delete”  “Value not found to delete”. |
| HashTable | remove y getValue (intercalados) | setupStage3 | K=1,  K=1,  K=1,  K=1.  K=1,  K=1,  K=1,  K=1,  K=1. | “”,  “persona1”  “”,  “persona1”  “”  “persona1”  “”  Null  “Value not found to delete” |