**Test design**

**Configuration of the Scenarios**

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| **Name** | **Class** | **Scenario** |
| setUpStage1 | HashTable | A HashTable containing nodes with:  Key: "key1", Value: 27  Key: "key2", Value: 53 |
| setUpStage2 | Stack | A Stack containing key-value pairs:  Key: "key1", Value: 12  Key: "key2", Value: 56 |
| setUpStage3 | MaxHeap | MaxHeap containing TaskReminders:    Insert TaskReminder with level importance: 30  Insert TaskReminder with level importance: 83 |
| setUpStage4 | Queue | A Queue containing key-value pairs:    Enqueue –> key: "key1", Value: 18  Enqueue – > key: "key2", Value: 9 |
| setUpStage5 | HashTable | Empty HashTable |
| setUpStage6 | Stack | Empty Stack |
| setUpStage7 | MaxHeap | Empty MaxHeap |
| setUpStage8 | Queue | Empty Queue |
| setUpStage9 | MaxHeap | Attempt to insert 1001 TaskReminders |

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| **Objective of the Test: the purpose of this test is to test everything related to the hash table insert method.** | | | |
| **Class** | **Mehod** | **Scenario** | **Expected result** |
| **Hashtable** | **Insert and search** | **SetupStage1** | **the size must change the size in +1** |
| **Hashtable** | **insert** |  | **the system should return an equal object exception.** |
| **Hashtable** | **insert** | **SetupStage1** | **the system should return an incorrect object type exception.** |