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HashTableTest Unit Test Design

Name	Class	Scenary
setupScenary1	HashTable	3 empty shelves, created, each with a different shelf size (2 for the first shelf, 3 for the second shelf and 5 for the third).
setupScenary1	HashTable	The first shelf has two games: game 1 (code: 8765, amount: 1, price: 34000) and game2 (code: 32145, amount: 3, price: 28000).
setupScenary1	HashTable	The second shelf has three games: game3 (code: 6753, amount: 2, price: 73000), game4 (code: 8900, amount: 6, price: 50000) and game5 (1234, 1, 90000).
setupScenary1	HashTable	The third shelf has five games: game1 (code: 8765, amount: 1, price: 34000), game2 (code: 32145, amount: 3, price: 28000), game3 (code: 6753, amount: 2, price: 73000), game4 (code: 8900, amount: 6, price: 50000) and game5 (1234, 1, 90000).

HashTableTest Test Case Design

Test objective: Validate that a shelf is correctly entered into the HashTable				
Class	Method	Scenary	Input Values	Result
HashTableTest	addTest()	setUpScenary1	Shelfs 1, 2 and 3 previously created	The shelves were correctly entered into the HashTable.

Test objective: Validate that a HashTable shelf is correctly searched				
Class	Method	Scenary	Input Values	Result
HashTableTest	searchTest()	setUpScenary1	Shelfs 1, 2 and 3 previously created	A shelf of the HashTable was found correctly.

Test objective: Validate that a non-existent shelf is not found in the HashTable				
Class	Method	Scenary	Input Values	Result
HashTableTest	searchTest2()	setUpScenary1	Ninguno	Null, the shelf was not found because it was not previously entered.

Test objective: Validate the correct elimination of a shelf in the HashTable				
Class	Method	Scenary	Input Values	Result
HashTableTest	deleteAndSearchTest()	setUpScenary1	Shelfs 1, 2 and 3 previously created	Null, the shelf was successfull y cleared from the HashTable.

Test objective: Validate that the indexes where the shelves were added are different in each case				
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Class	Method	Scenary	Input Values	Result
HashTableTest	getIndexTest()	setUpScenary1	Shelfs 1, 2 and 3 previously created	The indexes where the shelves were added are different from each other.

Test objective: Validate that two shelves with the same Key are not added to the HashTable

Class	Method	Scenary	Input Values	Result
HashTableTest	duplicatedKeyTest()	setUpScenary1	Shelfs 1, 2 and 3 previously created	There are no shelves with the same Key in the HashTable

QueueTest Unit Test Design

Name	Class	Scenary
setUpScenary1	Queue	5 clients added with different codes, each one and an empty game list.
setUpScenary1	Queue	The first client with code: "pdr34" and list of games: "games"
setUpScenary1	Queue	The second client with code: "sdio29n" and list of games: "games"
setUpScenary1	Queue	The third client with code: "opsdf893" and games list: "games"
setUpScenary1	Queue	The fourth client with code: "op6op2" and list of games: "games"

setupScenary1	Queue	The fifth client with code: "mds3j" and list of games: "games"
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QueueTest Test Case Design

Test objective: Validate that a customer is correctly added to the Cake and remains in front				
Class	Method	Scenary	Input Values	Result
QueueTest	addTest()	setUpScenary1	Clients 1, 2, 3, 4, and 5 previously created	Clients have been added successfully and remains in front

Test objective: Validate that when polling returns and removes a client from the Queue				
Class	Method	Scenary	Input Values	Result
QueueTest	pollTest()	setUpScenary1	Clients 1, 2, 3, 4, and 5 previously created	The client is returned and removed from the Queue in a successful way

Test objective: Validate that when polling returns a client from the Queue				
Class	Method	Scenary	Input Values	Result

QueueTest	peekTest()	setUpScenary1	Clients 1, 2, 3, 4, and 5 previously created	The client is returned from the Queue in a successful way
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Test objective: Validates that clients are correctly added and the current size of the Queue is returned at all times				
Class	Method	Scenary	Input Values	Result
QueueTest	sizeTest()	setUpScenary1	Clients 1, 2, 3, 4, and 5 previously created	The client is added correctly and the current size of the Queue is returned at all times

StackTest Unit Test Design

Name	Class	Scenary
setUpScenary1	Stack	5 empty games, created, with different codes, each one, a quantity, and a price
setUpScenary1	Stack	The first game has a code: "8765", quantity: 1 and price: 34,000
setUpScenary1	Stack	The second game has a code: "32145", quantity: 3 and price: 28,000
setUpScenary1	Stack	The third game has a code: "6753", quantity: 2 and price: 73,000
setUpScenary1	Stack	The fourth game has a code: "6753", quantity: 6 and price: 50,000

setupScenary1	Stack	The fourth game has a code: "6753", quantity: 6 and price: 50,000
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StackTest Test Case Design

Test objective: Validate that a game is correctly added to the Stack				
Class	Method	Scenary	Input Values	Result
StackTest	pushAndPopNullTest ()	setUpScenary1	Games 1, 2, 3, 4, and 5 are previously created	A game was successfully added to the Stack.

Test objective: Validate that the last game that was entered into the Stack returns correctly				
Class	Method	Scenary	Input Values	Result
StackTest	popTest ()	setUpScenary1	Games 1, 2, 3, 4, and 5 are previously created	The last game that was entered into the Stack was correctly returned.

Test objective: Validate the correct elimination of a game in the Stack				
Class	Method	Scenary	Input Values	Result
StackTest	peekAndPopTest ()	setUpScenary1	Games 1, 2, 3, 4, and 5 are previously created	Null, the game was correctly returned and removed from the stack.

Test objective: Check that the last added element is at the end of the Stack				
Class	Method	Scenary	Input Values	Result
StackTest	compareTopTest()	setUpScenary1	Games 1, 2, 3, 4, and 5 are previously created	The last item added is at the end of the Stack.