

Test design

Setup bookTest

| Name | Class | Stage |
|--------|-------|---|
| Setup1 | Book | key="4353" value=1 title="1 miles" chapter="Inside" review="Good" critique="5 stars" cost=40000 quantity=3 book=new Book(key,value, chapter,review,critique,title,cost,quantity) |

Setup ClientTest

| Name | Class | Stage |
|-------------|--------|---|
| setupStage1 | Client | id="1193033579" client = new Client (id) |

Setup HashTableTest

| Name | Class | Stage |
|-------------|-------|--|
| setupStage1 | Hash | s=2 key1="4353" value1=1 title1="1 miles" chapter1="Inside" review1="Good" critique1="5 stars" cost1=40000 quantity1=3 key2="5643" value2=3 title2="Levitating" chapter2="Oscar" review2="So so" critique2="3 stars" cost2=26000 quantity2=2 h1=new HashTable() b1=h1.getBooks() |
| setupStage2 | Hash | s=4 key1="4353" value1=1 |

| | | |
|--|--|--|
| | | title1="1 miles" chapter1="Inside" review1="Good" critique1="5 stars" cost1=40000 quantity1=3 key2="5645" value2=3 title2="Levitating" chapter2="Oscar" review2="So so" critique2="3 stars" cost2=26000 quantity2=2 key3="3465" value3=2 title3="Burning" chapter3="Sancho" review3="Good" critique3="4 stars" cost3=39000 quantity3=2 key4="4243" value4=1 title4="My journey" chapter4="Day 1" review4="Nice" critique4="4 stars" cost4=32400 quantity4=2 h1=new HashTable() b1=h1.getBooks() |
|--|--|--|

Setup QueueTest

| Name | Class | Stage |
|-------------|-------|--|
| setupStage1 | Queue | q=new Queue() c1=new Client("1193033579") c2=new Client("1123443666") c3=new Client("1586859403") |
| setupStage2 | Queue | q=new Queue() |

Setup StackTest

| Name | Class | Stage |
|-------------|-------|-------------------------|
| setupStage1 | Stack | key1="4353" value1=1 |

| | | |
|-------------|-------|--|
| | | title1="1 miles" chapter1="Inside" review1="Good" critique1="5 stars" cost1=40000 quantity1=3 key2="5643" value2=3 title2="Levitating" chapter2="Oscar" review2="So so" critique2="3 stars" cost2=2600 quantity2=2 b1=new book(key1,value1,chapter1,review1,critique1,title1,cost1,quantity1) b2=new Book(key2,value2,chapter2,review2,critique2,title2,cost2,quantity2) stack=new Stack() |
| setupStage2 | Stack | key1="4353" value1=1 title1="1 miles" chapter1="Inside" review1="Good" critique1="5 stars" cost1=40000 quantity1=3 key2="5645" value2=3 title2="Levitating" chapter2="Oscar" review2="So so" critique2="3 stars" cost2=26000 quantity2=2 key3="3465" value3=2 title3="Burning" chapter3="Sancho" review3="Good" critique3="4 stars" cost3=39000 quantity3=2 key4="4243" value4=1 title4="My journey" chapter4="Day 1" review4="Nice" |

| | | |
|--|--|--|
| | | critique4="4 stars" cost4=32400 quantity4=2 b1=new Book(key1,value1,chapter1,review1,critique1,title1,cost1,quantity1) b2=new Book(key2,value2,chapter2,review2,critique2,title2,cost2,quantity2) b3=new Book(key3,value3,chapter3,review3,critique3,title3,cost3,quantity3) b4=new Book(key4,value4,chapter4,review4,critique4,title4,cost4,quantity4) stack=new Stack() |
|--|--|--|

Test Book

| Obj: the objective of this test is to verify that a book was added successfully | | | |
|---|----------|-------------|-------------------------|
| Class | Method | Stage | Result |
| Book | testBook | setupStage1 | The book has been added |

Test Client

| Obj: the objective of this test is to verify that id client exists and are equals to testClient id | | | |
|--|------------|-------------|------------------------------------|
| Class | Method | Stage | Result |
| Client | testClient | setupStage1 | The id client exist and are equals |

| Obj: the objective of this test is to verify that a client has been clone | | | |
|---|-----------|-------------|--|
| Class | Method | Stage | Result |
| Client | testClone | setupStage1 | The client has been clone and the id of the clone are equals of the client |

| Obj: the objective of this test is to verify that the method priceBooks calculate the price of books from one client | | | |
|--|----------------|-------------|--|
| Class | Method | Stage | Result |
| Book | testPriceBooks | setupStage1 | The client price are equals of price books |

| Obj: the objective of this test is to verify that a list of ISBN are empty | | | |
|--|---------------|-------------|--------------------|
| Class | Method | Stage | Result |
| Client | testlisOfISBN | setupStage1 | The list are empty |

Test Hash

| | | | |
|--|--------------|-------------|-------------------------|
| Obj: the objective of this test is to verify that the hash table are empty | | | |
| Class | Method | Stage | Result |
| Hash | TestHashTale | setupStage1 | The has table are empty |

| | | | |
|--|---------|-------------|--------------------------|
| Obj: the objective of this test is to verify that create two books and add to hash table | | | |
| Class | Method | Stage | Result |
| Hash | testPut | setupStage1 | Two books has been added |

| | | | |
|---|------------|-------------|---------------------|
| Obj: the objective of this test is to verify that two books are searching and found | | | |
| Class | Method | Stage | Result |
| Hash | testSearch | setupStage1 | Two books are found |

| | | | |
|--|-------------|-------------|---------------------------|
| Obj: the objective of this test is to verify that the book has been delete | | | |
| Class | Method | Stage | Result |
| Hash | testRemove1 | setupStage2 | The book has been deleted |

| | | | |
|--|-------------|-------------|---------------------------|
| Obj: the objective of this test is to verify that the book has been delete | | | |
| Class | Method | Stage | Result |
| Hash | testRemove2 | setupStage2 | The book has been deleted |

| | | | |
|--|-------------|-------------|---------------------------|
| Obj: the objective of this test is to verify that the book has been delete | | | |
| Class | Method | Stage | Result |
| Hash | setupStage3 | setupStage2 | The book has been deleted |

| | | | |
|--|-------------|-------------|---------------------------|
| Obj: the objective of this test is to verify that the book has been delete | | | |
| Class | Method | Stage | Result |
| Hash | setupStage4 | setupStage2 | The book has been deleted |

| | | | |
|--|--------------|-------------|--------------------|
| Obj: the objective of this test is to verify that are elements added are in the list | | | |
| Class | Method | Stage | Result |
| Hash | testBookList | setupStage1 | The list are books |

Test Queue

| | | | |
|--|-----------|-------------|---------------------------|
| Obj: the objective of this test is to verify the correct function of the queue | | | |
| Class | Method | Stage | Result |
| Queue | testQueue | setupStage1 | The method give the front |

| | | | |
|---|-------------|-------------|---------------------------------|
| Obj: the objective of this test is to verify the enqueue method | | | |
| Class | Method | Stage | Result |
| Queue | testEnqueue | setupStage1 | The method enqueue tree objects |

| | | | |
|---|-------------|-------------|--|
| Obj: the objective of this test is to verify the dequeue method | | | |
| Class | Method | Stage | Result |
| Queue | testdequeue | setupStage1 | The method enqueue three object and dequeue two object |

| | | | |
|---|-----------|-------------|---|
| Obj: the objective of this test is to verify the front method | | | |
| Class | Method | Stage | Result |
| Queue | testFront | setupStage1 | The method add three objects and gives the front of the queue |

| | | | |
|--|-----------|-------------|---------------------|
| Obj: the objective of this test is to verify the queue are empty | | | |
| Class | Method | Stage | Result |
| Queue | testEmpty | setupStage2 | The queue are empty |

Test Stack

| | | | |
|--|----------|-------------|--|
| Obj: the objective of this test is to verify the correct function of the push method | | | |
| Class | Method | Stage | Result |
| Stack | testPush | setupStage1 | The method add or push two object and search the top to verify |

| | | | |
|---|---------|-------------|--|
| Obj: the objective of this test is to verify the correct function of the pop method | | | |
| Class | Method | Stage | Result |
| Stack | testPop | setupStage2 | Add four object to stack and do a pop and verify the top |

| Obj: the objective of this test is to verify the correct function of the top method | | | |
|---|---------|-------------|---|
| Class | Method | Stage | Result |
| Stack | testTop | setupStage1 | Add two objects and verify the top in the stack |

| Obj: the objective of this test is to verify the transformation of the stack to array | | | |
|---|---------------------|-------------|-------------------------------------|
| Class | Method | Stage | Result |
| Stack | testTopStackToArray | setupStage1 | The stack has been convert to array |