Test Case #	Purpose of test case	Input Data	Expected Output
1	Testing add() and grow() ● Add an item to the bag ● Six items are added to the bag	(Six items were created in testbed) ● add(item 1) ● add(item 1) add(item 1) add(item 1) add(item 1) add(item 1)	● A new grocery item is created and inserted in the object array, Bag. The size is incremented ● The first five grocery items are added into Bag, which is of size five. Each addition increments the size of the bag. The sixth addition triggers .grow(), which creates a new array five elements larger and transfers the contents of Bag over. The sixth item is then added to the new array. The size of the bag is incremented.
2	Testing all possible print statements ● Testing Add ● Testing Add ● Testing Remove ● Testing Remove on an Non-existent item ● Testing Print ● Testing Checkout ● Testing Remove ● Testing Print on an empty shopping cart ● Testing Checkout on an empty cart ● Testing Quit on an empty cart	(In sequence, User input from console) ● "A milk 2.99 false" ● "A skittles 0.99 false" ● "R milk 2.99 false" ● "R milk 2.99 false"	● "milk added to the bag" ● "skittles added to the bag" ● "milk 2.99 removed" ● "Unable to remove, this item is not in the bag." ● "**You have 1 item(s) in the bag. -skittles: $0.99 : tax free" ● "**Checking out 1 item(s). - skittles: $0.99 : taxable *Sales total: $0.99

		• "P" • "C" • "R skittles 0.99 false" • "P" • "C" • "Q"	*Sales tax: $0.07 *Total amount paid: $1.06" • "skittles 0.99 removed" • "The bag is empty!" • "Unable to check out, the bag is empty!" • "Thanks for shopping with us!"
3	Testing remove() • Add an item to the bag • Remove item just added • Attempt to remove the item a second time	(One item was created in testbed) • add(skittles) • remove(skittles) • remove(skittles)	• A new grocery item is created and inserted in the object array, Bag. The size of the bag is incremented. • The method, find(), is triggered to locate the first item that matches "skittles 2.99 true". Once found, the index which it was found in is set to the last item added to the grocery bag. The index to where the last item was originally at is then set to null. The size of the bag is decremented. • The method, find(), is triggered to locate the first item that matches "skittles 2.99 true". The item is not found, false is returned.
4	Testing salesTax() (One taxable, One non-taxable) • Add two items • Call salesTax()	[(Two items were created in testbed) ("milk",2.99,false	• The total amount of sales tax is held inside a variable, salesTax which is

		),("skittles,2.99,true)] • add(item 1) • add(item 2) • salesTax()	retrieved from the method salesTax(). salesTax() iterates through Bag, multiply taxable items by 0.06625 and returns the total amount, which is 0.20 given by the formatting of (2.99 * 0.06625).