BASE MENU

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
MainMenu	1	User tries to create a new registration when max users is reached	nChoice contains: 1 *numberofuse rs contains: 100	Prints the message "MAX USERS REACHED!"	Prints the message "MAX USERS REACHED!"	Р
	2	The user tries to access the user menu	nChoice contains: 2	The function userMenu gets called	The function userMenu gets called	Р
	3	User tries to access the admin menu	nChoice contains: 3	The function AdminMenu gets called	The function AdminMenu gets called	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
UserReg	1	All valid inputs	User ID: 5 Password: Secretpass Address: Mondstadt City ContactNo: 1101011 Username: Chester	users[*numberofuse rs].userID contains: 5 users[*numberofuse rs].userPassword contains: Secretpass users[*numberofuse rs].userAddress contains: Mondstadt City users[*numberofuse rs].userContactno contains: 1101011 users[*numberofuse rs].userName contains: Chester	users[*numberofuse rs].userID contains: 5 users[*numberofuse rs].userPassword contains: Secretpass users[*numberofuse rs].userAddress contains: Mondstadt City users[*numberofuse rs].userContactno contains: 1101011 users[*numberofuse rs].userName contains: Chester	Р
	2	User ID has been taken	User ID: 5	Prints the message "UserID already taken! Please enter a new one" users[*numberofuse rs].userID is not updated	Prints the message "UserID already taken! Please enter a new one" users[*numberofuse rs].userID is not updated	Р
	3	Some strings have spaces	User ID: 20 Password: Jellyfish Address:	users[*numberofuse rs].userID contains: 20	users[*numberofuse rs].userID contains: 20	Р

	Watatsumi Island ContactNo: 11223 Username: Sangonomiya Kokomi	users[*numberofuse rs].userPassword contains: Jellyfish users[*numberofuse rs].userAddress contains: Watatsumi Island users[*numberofuse rs].userContactno	users[*numberofuse rs].userPassword contains: Jellyfish users[*numberofuse rs].userAddress contains: Watatsumi Island users[*numberofuse rs].userContactno	
		contains: 11223 users[*numberofuse	contains: 11223 users[*numberofuse	
		rs].userName contains: Sangonomiya Kokomi	rs].userName contains: Sangonomiya Kokomi	

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
LoadCart	1	User does not have a cart with their user ID	N/A	Prints the message "No previous carts found"	Prints the message "No previous carts found"	Р
	2	User has a cart with their user ID	N/A	cart[] gets updated	cart[] gets updated	Р
	3	User has a cart with specific contents	3.txt contains: 5 1 KFC Hashbrown Food staple breakfast food 100 100.00	cart[0].produc tID contains: 5 cart[0].sellerI D contains: 1 cart[0].itemNa me contains: KFC Hashbrown cart[0].itemCa tegory contains: Food cart[0].itemDe sc contains: staple breakfast food cart[0].itemQt y contains: 100 cart[0].itemPri	cart[0].produc tID contains: 5 cart[0].sellerI D contains: 1 cart[0].itemNa me contains: KFC Hashbrown cart[0].itemCa tegory contains: Food cart[0].itemDe sc contains: staple breakfast food cart[0].itemQt y contains: 100 cart[0].itemPri	Р

		ce contains: 100.00	ce contains: 100.00	
			i	

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
ExitUserM enu	1	User does not have a cart file with their user ID	users[i].userl D contains: 3	3.txt gets created in the location	3.txt gets created in the location	Р
	2	User does not have a cart file with their user ID but has an item in their cart	cart[0].productID contains: 5 cart[0].sellerID contains: 1 cart[0].itemName contains: KFC Hashbrown cart[0].itemCateg ory contains: Food cart[0].itemDesc contains: staple breakfast food cart[0].itemQty contains: 100 cart[0].itemPrice contains: 100.00	3.txt contains: 5 1 KFC Hashbrown Food staple breakfast food 100 100.00	3.txt contains: 5 1 KFC Hashbrown Food staple breakfast food 100 100.00	Д
	3	User does not have a cart file with their user ID but has multiple items in their cart	cart[0].productID contains: 5 cart[0].sellerID contains: 1 cart[0].itemName contains: KFC Hashbrown cart[0].itemCateg ory contains: Food cart[0].itemDesc contains: staple breakfast food cart[0].itemQty contains: 100	3.txt contains: 5 1 KFC Hashbrown [JV] Food staple breakfast food 100 100.00 15 6 Apple [Stan] Food an apple a day 22 20.00	3.txt contains: 5 1 KFC Hashbrown [JV] Food staple breakfast food 100 100.00 15 6 Apple [Stan] Food an apple a	P

	cart[0].itemPrice contains: 100.00	day 22 20.00	
	cart[1].productID contains: 15		
	cart[1].sellerID contains: 6		
	cart[1].itemName contains: Apple		
	cart[1].itemCateg ory contains: Food		
	cart[1].itemDesc contains: an apple a day		
	cart[1].itemQty contains: 22		
	cart[1].itemPrice contains: 20.00		

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
UserMenu	1	User tries to access the sell menu	nChoice contains: 1	SellMenu function gets called	SellMenu function gets called	Р
	2	User tries to access the buy menu	nChoice contains: 2	LoadCart and BuyMenu gets called	LoadCart and BuyMenu gets called	Р
	3	User Exits the menu	nChoice contains: 3	ExitUserMenu is called and program returns to the MainMenu	ExitUserMen u is called and program returns to the MainMenu	Р

SELL MENU

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
stockMenu	1	User replenishes	nChoice	item->itemQty	item->itemQty	Р

	stock of an item	contains: 1 nNum contains: 3	contains: 4	contains: 4	
		item->itemQty contains: 1			
2	User changes the price of an	nChoice contains:	item->itemPrice contains: 125.55	item->itemPrice contains: 125.55	Р
		fNum contains: 125.55			
		item->itemPrice contains: 200.00			
3	the name of an item	nChoice contains:	item->itemNam e contains: Dog	item->itemNam e contains: Dog	Р
		item->itemName contains: Fish			
		User inputs: Dog			
4	User changes the category of an item	nChoice contains:	item->itemCate gory contains: 5 star catalyst	item->itemCate gory contains: 5 star catalyst	Р
		item->itemCateg ory contains: Machine		star catalyst	
		User inputs: 5 star catalyst			
5	the description of an item	nChoice contains: 5	item->itemDesc contains: Cool	item->itemDesc contains: Cool	Р
		item->itemDesc contains: Best Catalyst	Catalyst	Catalyst	
		User inputs: Cool Catalyst			

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
editStock	1	User inputs a valid product ID in the users list of items	Logged in user's userID:	Function stockMenu gets called	Function stockMenu gets called	Р
	or items	nCheckID contains: 1				
			items[0].seller ID contains: 1			
			items[0].prod uctID contains: 1			
	2	User inputs a product ID of a item with a different seller ID	Logged in user's userID: 1 nCheckID contains: 7	Prints the message "PRODUCT ID NOT FOUND	Prints the message "PRODUCT ID NOT FOUND	Р
			items[6].seller ID contains: 2			
			items[6].prod uctID contains: 7			
	3	User inputs a product ID that is not used by any seller	Logged in user's userID:	Prints the message "PRODUCT ID NOT	Prints the message "PRODUCT ID NOT	Р
		-	nCheckID contains: 888	FOUND	FOUND	

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
AddNewIte m	1	Every input is valid	Input ID: 40 Input Name: Icecream Input Category: Food Input	items[0].productID contains: 40 items[0].itemName contains: "Icecream" items[0].itemCateg ory contains:	items[0].productl D contains: 40 items[0].itemNa me contains: "Icecream" items[0].itemCat egory contains:	Р

		Description: Don't even try Input Price: 49 Input Quantity: 12	"Food" items[0].itemDesc contains: "Don't even try" items[0].itemQty contains: 12	"Food" items[0].itemDes c contains: "Don't even try" items[0].itemQty contains: 12	
2	Inputted productID is taken	Input ID: 40 (productID 40 has been taken prior)	Prints the message "Item Product ID has been taken already!" and asks the user for a new input	Prints the message "Item Product ID has been taken already!" and asks the user for a new input	Р
3	Inputted productID is negative	InputID: -11	Prints the message "Item Product ID is Invalid!" and asks the user for a new input	Prints the message "Item Product ID is Invalid!" and asks the user for a new input	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
LowStock	1	All products of the user have an itemQty greater than 5	(These items have the same seller ID) items[0].itemQty contains: 10 items[1].itemQty contains: 10 items[2].itemQty contains: 20	Prints the message "ALL PRODUCTS ARE PROPERLY STOCKED!"	Prints the message "ALL PRODUCTS ARE PROPERLY STOCKED!"	Ъ
	2	A product of the user has an itemQty of less than 5	(These items have the same seller ID) items[0].itemQty contains: 10 items[1].itemQty contains: 10 items[2].itemQty contains: 2	temp[j] will have the same contents as item[2], j increments.	temp[j] will have the same contents as item[2], j increments	Р
	3	User has no products	items[] doesn't contain a single item that has the same sellerID	Prints the message "USER HAS NO PRODUCTS!"	Prints the message "USER HAS NO PRODUCTS!"	Р

as the user's userID	
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Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
SellMenu	1	User tries to add a new item, but user already has 20 items in the system	nChoice contains: 1	Prints the message "Max item limit reached!"	Prints the message "Max item limit reached!"	Р
	2	User tries to add a new item and user has less than 20 items in the system	nChoice contains: 1	User gets brought to the function AddNewItem	User gets brought to the function AddNewItem	Р
	3	User selects the option to edit stock	nChoice contains: 2	All products are sorted by productID, then the user gets brought to the editStock menu	All products are sorted by productID, then the user gets brought to the editStock menu	Р
	4	User selects the option to show all their products	nChoice contains: 3	All products are sorted by productID, then all their products are shown in table format	All products are sorted by productID, then all their products are shown in table format	Р
	5	User selects the option to show their low stock products	nChoice contains: 4	All of user's low stock products are shown in page format	All of user's low stock products are shown in page format	Р
	6	User selects the option to exit sell menu	nChoice contains: 5	User gets transported back to UserMenu	User gets transported back to UserMenu	Р

BUY MENU

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
showSpecif icSeller	1	User inputs a sellerID that exists	sellerlDinputf or2 contains: 2	prints all of userID 2's products	prints all of userID 2's products	Р
	2	User inputs a sellerID that doesn't exist	selleriDinputf or2 contains: 30	Prints "UserID not found!"	Prints "UserID not found!"	Р
	3	User inputs an existing sellerID with no products	sellerIDinputf or2 contains 23	Prints a blank template	Prints a blank template	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
SearchCat egory	1	User inputs a category that exists	User inputs the category: 5 star catalyst	Product ID: 44 Item Name: Moonlight Everglow Category: 5 star catalyst Description: Really nice ball Quantity: 6 Price: 6999.99	Product ID: 44 Item Name: Moonlight Everglow Category: 5 star catalyst Description: Really nice ball Quantity: 6 Price: 6999.99	Р
	2	User inputs a category that multiple users have the product of	User inputs the category: Art	Product ID: 21 Item Name: Poem Category: Art Description: well written poem Quantity: 10 Price: 1500.00 Product ID: 27 Item Name: Dance Category: Art Description: makes u happy Quantity: 4 Price: 1000.00 Product ID: 28 Item Name:	Product ID: 21 Item Name: Poem Category: Art Description: well written poem Quantity: 10 Price: 1500.00 Product ID: 27 Item Name: Dance Category: Art Description: makes u happy Quantity: 4 Price: 1000.00 Product ID: 28 Item Name:	P

			Painting Category: Art Description: realistic bread Quantity: 5 Price: 1000.00	Painting Category: Art Description: realistic bread Quantity: 5 Price: 1000.00	
3	User inputs a category that doesn't exist	User inputs the category: Free	Prints the message "NO PRODUCTS TO SHOW!"	Prints the message "NO PRODUCTS TO SHOW!"	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
SearchPNa me	1	User inputs a name that is part of a product's name	User inputs the name: Gravy	Product ID: 4 Item Name: KFC Gravy Pump Category: Machine Description: Not stolen Quantity: 5 Price: 10000.00	Product ID: 4 Item Name: KFC Gravy Pump Category: Machine Description: Not stolen Quantity: 5 Price: 10000.00	Р
	2	User inputs a name that multiple products have the name of	User inputs the name: coupon	Product ID: 8 Item Name: FireworkCoupo n Category: Hopium Description: Recipe for firework Quantity: 100 Price: 10.00	Product ID: 8 Item Name: FireworkCoupo n Category: Hopium Description: Recipe for firework Quantity: 100 Price: 10.00	Р
				Product ID: 10 Item Name: PlusCoupon Category: Hopium Description: Adds points to grade Quantity: 20 Price: 999.00	Product ID: 10 Item Name: PlusCoupon Category: Hopium Description: Adds points to grade Quantity: 20 Price: 999.00	
				Product ID: 25 Item Name:	Product ID: 25 Item Name:	

			WFP Coupon Category: Hopium Description: Offers discounts Quantity: 100 Price: 100.00	WFP Coupon Category: Hopium Description: Offers discounts Quantity: 100 Price: 100.00	
3	User inputs a name that no product has the name of	User inputs the name: beef	Prints the message "NO PRODUCTS TO SHOW!"	Prints the message "NO PRODUCTS TO SHOW!"	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
AddtoCart	1	User inputs a product ID that exists, the product has adequate stock, and is not owned by them	ProductID contains: 21 (not owned by buyer) Quantity contains: 1 *itemsincart contains: 0	Cart[0].produc tID contains: 21 Cart[0].itemNa me contains: Poem Cart[0].itemCa tegory contains: Art Cart[0].itemDe sc contains: well written poem Cart[0].itemPri ce contains: 1500.00 Cart[0].sellerl D contains: 9 Cart[0].itemQt y contains: 1	Cart[0].productID contains: 21 Cart[0].itemName contains: Poem Cart[0].itemCategory contains: Art Cart[0].itemDesc contains: well written poem Cart[0].itemPrice contains: 1500.00 Cart[0].sellerID contains: 9 Cart[0].itemQty contains: 1	P
	2	User inputs a product ID that already exists in their cart	ProductID contains: 28 (not owned by buyer, but already exists in the cart)	Prints the message "Item already exists in cart!"	Prints the message "Item already exists in cart!"	Р

3	User inputs a product ID that exists, but the product does not have adequate stock	Quantity contains: 1 *itemsincart contains: 1 ProductID contains: 7 (not owned by buyer) Quantity	Prints the message "Quantity not available!"	Prints the message "Quantity not available!"	Р
		contains: 100 *itemsincart contains: 0			
4	User inputs a product ID that exists, but that product is owned by them	ProductID contains: 33 (owned by buyer) Quantity contains: 10 *itemsincart contains: 0	Prints the message "Can't buy your own item!"	Prints the message "Can't buy your own item!"	Р
5	User's cart is full	*itemsincart contains: 10	Prints the message "Cart is already full! Please consider editing the cart or checking out first before adding more items."	Prints the message "Cart is already full! Please consider editing the cart or checking out first before adding more items."	Р
6	User inputs a product ID that does not exist	ProductID contains: 365 (does not exist) Quantity contains: 1 *itemsincart	Prints the message "Product not found!"	Prints the message "Product not found!"	Р

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Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
searchcart	1	Key belongs to an item in the cart with the	key contains:	Index contains: 2	Index contains: 2	Р
		same sellerID	cart[0].sellerl D contains: 3			
			cart[1].sellerl D contains: 6			
			cart[2].sellerl D contains: 1			
			Index contains: -1			
	2	Key belongs to an item not in the cart with the	key contains: 12	Index contains: -1	Index contains: -1	Р
	same seller ID	cart[0].sellerl D contains: 3				
			cart[1].sellerl D contains: 6			
			cart[2].sellerl D contains: 1			
			Index contains: -1			
	3	Key does not match with any item's seller ID	key contains: 999	Index contains: -1	Index contains: -1	Р
	item's	Rems seller id	cart[0].sellerl D contains: 3			
			cart[1].sellerl D contains: 6			
			cart[2].sellerl D contains: 1			
			Index			

	contains: -1	
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Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
RemoveAllItems	1	User inputs a sellerID that a cart item of theirs own	Cart[0].product ID contains: 1 Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCat egory contains: Utensil Cart[0].itemDes c contains: it's a spoon Cart[0].itemPri ce contains: 9999.00 Cart[0].sellerID contains: 1 Cart[0].itemQty contains: 1 Inputted UserID contains: 1	Cart[0] now contains no info	Cart[0] now contains no info	P
	2	User inputs a sellerID that multiple cart item of theirs own	Cart[0].product ID contains: 1 Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCat egory contains: Utensil Cart[0].itemDes c contains: it's a spoon Cart[0].itemPri ce contains: 9999.00	Cart[0] now contains the info previously on Cart[2] (since both Cart[0] and Cart[1]'s sellerIDs were 1)	Cart[0] now contains info previously on Cart[2]	P

	Cart[0].sellerID contains: 1		
	Cart[0].itemQty contains: 1		
	Cart[1].product ID contains: 2		
	Cart[1].itemNa me contains: KFC Chicken		
	Cart[1].itemCat egory contains: Food		
	Cart[1].itemDes c contains: kentucky fried		
	Cart[1].itemPri ce contains: 100.00		
	Cart[1].sellerID contains: 1		
	Cart[1].itemQty contains: 1		
	Cart[2].product ID contains: 10		
	Cart[2].itemNa me contains: PlusCoupon		
	Cart[2].itemCat egory contains: Hopium		
	Cart[2].itemDes c contains: adds points to grade		
	Cart[2].itemPri ce contains: 999.00		
	Cart[2].sellerID contains: 4		
	Cart[2].itemQty contains: 1		

	1				
		Inputted UserID contains: 1			
3	User inputs a sellerID that	Cart[0].product ID contains: 10	Prints the message	Prints the message	Р
	none of their cart items own	Cart[0].itemNa me contains: PlusCoupon	"SELLER NOT FOUND!"	"SELLER NOT FOUND!"	
		Cart[0].itemCat egory contains: Hopium			
		Cart[0].itemDes c contains: adds points to grade			
		Cart[0].itemPri ce contains: 999.00			
		Cart[0].sellerID contains: 4			
		Cart[0].itemQty contains: 1			
		Inputted UserID contains: 10			
4	User inputs a sellerID that	Cart[0].product ID contains: 10	Prints the message	Prints the message	Р
	doesn't exist	Cart[0].itemNa me contains: PlusCoupon	"SELLER NOT FOUND!"	"SELLER NOT FOUND!"	
		Cart[0].itemCat egory contains: Hopium			
		Cart[0].itemDes c contains: adds points to grade			
		Cart[0].itemPri ce contains: 999.00			
		Cart[0].sellerID contains: 4			
		Cart[0].itemQty			

contains: 1		
Inputted User contains: 282		

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
RemoveSp ecificItem	1	User inputs a productID that a cart item of theirs own (cart only has 1 item)	Cart[0].product ID contains: 10 Cart[0].itemNa me contains: PlusCoupon Cart[0].itemCat egory contains: Hopium Cart[0].itemDes c contains: adds points to grade Cart[0].itemPri ce contains: 999.00 Cart[0].sellerID contains: 4 Cart[0].itemQty contains: 1 Inputted ProductID contains: 10	Cart[0] now contains no info	Cart[0] now contains no info	P
	2	User inputs a productID that a cart item of theirs own (cart has 3 items)	Cart[0].product ID contains: 1 Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCat egory contains: Utensil Cart[0].itemDes c contains: it's a spoon	Cart[0] now contains the info previously on Cart[1] Cart[1] now contains the info previously on Cart[2]	Cart[0] now contains the info previously on Cart[1] Cart[1] now contains the info previously on Cart[2]	P

c	Cart[0].itemPri ce contains: 9999.00		
C	Cart[0].sellerID contains: 1		
C	Cart[0].itemQty contains: 1		
C II	Cart[1].product D contains: 2		
n	Cart[1].itemNa ne contains: KFC Chicken		
e	Cart[1].itemCat egory contains: -ood		
c	Cart[1].itemDes contains: centucky fried		
c	Cart[1].itemPri ce contains: 100.00		
C	Cart[1].sellerID contains: 1		
C	Cart[1].itemQty contains: 1		
C	Cart[2].product D contains: 10		
n	Cart[2].itemNa ne contains: PlusCoupon		
e	Cart[2].itemCat egory contains: Hopium		
c	Cart[2].itemDes c contains: adds points to grade		
c	Cart[2].itemPri ce contains: 099.00		
C	Cart[2].sellerID		

				ı	
		contains: 4			
		Cart[2].itemQty contains: 1			
		Inputted ProductID contains: 1			
3	User inputs a productID that	Cart[0].product ID contains: 1	Prints the message	Prints the message	Р
	none of their cart items own	Cart[0].itemNa me contains: KFC Spoon	"PRODUCT NOT FOUND!"	"SELLER NOT FOUND!"	
		Cart[0].itemCat egory contains: Utensil			
		Cart[0].itemDes c contains: it's a spoon			
		Cart[0].itemPri ce contains: 9999.00			
		Cart[0].sellerID contains: 1			
		Cart[0].itemQty contains: 1			
		Inputted ProductID contains: 2			
4	User inputs a productID that	Cart[0].product ID contains: 1	Prints the message	Prints the message	Р
	doesn't exist	Cart[0].itemNa me contains: KFC Spoon	"PRODUCT NOT FOUND!"	"PRODUCT NOT FOUND!"	
		Cart[0].itemCat egory contains: Utensil			
		Cart[0].itemDes c contains: it's a spoon			
		Cart[0].itemPri ce contains:			

	9999.00		
	Cart[0].sellerID contains: 1		
	Cart[0].itemQty contains: 1		
	Inputted ProductID contains: 189		

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
EditQuantit	1	User edits the quantity of a product in their cart into a valid quantity (quantity seller has stock of)	Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCat egory contains: Utensil Cart[0].itemDes c contains: it's a spoon Cart[0].itemPri ce contains: 9999.00 Cart[0].sellerID contains: 1 Cart[0].itemQty contains: 3 Inputted ProductID contains: 1 Inputted Quantity contains: 9	Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCa tegory contains: Utensil Cart[0].itemDe sc contains: it's a spoon Cart[0].itemPri ce contains: 9999.00 Cart[0].sellerl D contains: 1 Cart[0].itemQt y contains: 9	Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCa tegory contains: Utensil Cart[0].itemDe sc contains: it's a spoon Cart[0].itemPri ce contains: 9999.00 Cart[0].sellerl D contains: 1 Cart[0].itemQt y contains: 9	P
	2	User edits the quantity of a product in their cart into a	Cart[0].product ID contains: 1 Cart[0].itemNa	Prints the message "NOT ENOUGH	Prints the message "NOT ENOUGH	Р

	quantity that exceeds the seller's stock	me contains: KFC Spoon Cart[0].itemCat egory contains: Utensil Cart[0].itemDes c contains: it's a spoon Cart[0].itemPri ce contains: 9999.00 Cart[0].sellerID contains: 1 Cart[0].itemQty contains: 9 Inputted ProductID contains: 1 Inputted Quantity contains: 100	STOCK!"	STOCK!"	
3	User edits the quantity of a product that does not exist/a product that is not in their cart	Inputted ProductID contains: 10000 Inputted Quantity contains: 1 (productID does not exist)	Prints the message "PRODUCT NOT FOUND!"	Prints the message "PRODUCT NOT FOUND!"	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
EditCart	1	User selects the option to remove all items from seller	nChoice contains: 1	User gets brought to the function RemoveAllIte ms	User gets brought to the function RemoveAllIt ems	Р
	2	User selects the option to a	nChoice contains: 2	User gets brought to the	User gets brought to	Р

	remove specific item		function RemoveSpecif icItem	the function RemoveSpe cificItem	
3	User selects the option to edit quantity	nChoice contains: 3	User gets brought to the function EditQuantity	User gets brought to the function EditQuantity	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
CheckOutA II	1	Cart has the item of one seller				P
			Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCat egory contains: Utensil Cart[0].itemDes c contains: it's a spoon Cart[0].itemPri ce contains: 9999.00 Cart[0].sellerID contains: 1	*itemsincart contains: 0 The stock of productID 1 decreases by the quantity in the cart (5 in this case) Transactions.tx t also gets updated to include the information on the purchase	*itemsincart contains: 0 The stock of productID 1 decreases by the quantity in the cart (5 in this case) Transactions.tx t also gets updated to include the information on the purchase	

		Cart[0].itemQty contains: 5 *receiptAmoun t contains: 0			
2	Cart has 2 items from one seller, 1 item from another seller	person.userID contains: 20 purchasedate.month contains: 1 purchasedate.d ay contains: 1 purchasedate.y ear contains: 2022 *itemsincart contains: 3 Cart[0].product ID contains: 1 Cart[0].itemNa me contains: KFC Spoon Cart[0].itemCat egory contains: Utensil Cart[0].itemPri ce contains: it's a spoon Cart[0].itemPri ce contains: 9999.00 Cart[0].sellerID contains: 1 Cart[0].itemQty contains: 5 Cart[1].product ID contains: 2 Cart[1].itemNa me contains: 2	Prints the buyerID, date, sellerID, seller name, total transaction price, as well as information on the purchase in table format. (separate tables/receipts per seller) receipt[0].item s[0] contains info on the product in cart[0] receipt[0].item s[1] contains info on the product in cart[1] receipt[1].item s[0] contains info on the product in cart[2] *receiptAmou nt contains: 2 *itemsincart contains: 0 The stock of productID 1 decreases by the 5, stock of productID 2 decreases by 3, stock of productID 7 decreases by 5	Prints the buyerID, date, sellerID, seller name, total transaction price, as well as information on the purchase in table format. (separate tables/receipts per seller) receipt[0].item s[0] contains info on the product in cart[0] receipt[0].item s[1] contains info on the product in cart[1] receipt[1].item s[0] contains info on the product in cart[2] *receiptAmou nt contains: 2 *itemsincart contains: 0 The stock of productID 1 decreases by the 5, stock of productID 7 decreases by 5	P

		Cart[1].itemCat egory contains: Food Cart[1].itemDes c contains: kentucky fried Cart[1].itemPri ce contains: 100.00 Cart[1].sellerID contains: 1 Cart[1].itemQty contains: 3 Cart[2].product ID contains: 7 Cart[2].itemNa me contains: Fireworks Cart[2].itemCat egory contains: Explosives Cart[2].itemDes c contains: Fleeting joy Cart[2].itemPri ce contains: 100.00 Cart[2].sellerID contains: 2 Cart[2].itemQty contains: 5 *receiptAmount contains: 0	t also gets updated to include the information on the purchases, with each different seller having different receipts	t also gets updated to include the information on the purchases, with each different seller having different receipts	
3	Cart has no items	person.userID contains: 20 purchasedate. month contains:	Nothing happens	Nothing happens	Р
		purchasedate.d ay contains: 1			

	purchasedate.y ear contains: 2022		
	*itemsincart contains: 3		
	*receiptAmoun t contains: 0		

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
CheckOutS eller	1	has the sellerID	tempsellerID contains: 1	Prints the buyerID, date, sellerID, seller	Prints the buyerID, date, sellerID, seller	Р
			person.userID contains: 20	name, total transaction price, as well	name, total transaction price, as well	
			purchasedate. month contains: 1	as information on the purchase in table format.	as information on the purchase in table format.	
			purchasedate.d ay contains: 1	receipt[0].item s[0] contains	receipt[0].item s[0] contains	
			purchasedate.y ear contains: 2022	info on the product in cart[0]	info on the product in cart[0]	
			*itemsincart contains: 3	*receiptAmou nt contains: 1	*receiptAmou nt contains: 1	
			Cart[0].product ID contains: 1	*itemsincart contains: 0	*itemsincart contains: 0	
			Cart[0].itemNa me contains: KFC Spoon	The stock of productID 1 decreases by	The stock of productID 1 decreases by the quantity in	
			Cart[0].itemCat egory contains: Utensil	the quantity in the cart (5 in this case)	the cart (5 in this case)	
			Cart[0].itemDes c contains: it's a spoon	Transactions.tx t also gets updated to include the information on	Transactions.tx t also gets updated to include the information on	
			Cart[0].itemPri ce contains: 9999.00	the purchase	the purchase	

1		I			
		Cart[0].sellerID contains: 1			
		Cart[0].itemQty contains: 5			
2	Multiple items in cart has the sellerID	tempsellerID contains: 1	Prints the buyerID, date, sellerID, seller name, total transaction price, as well	Prints the buyerID, date, sellerID, seller	Р
	JOHOTTE	person.userID contains: 20		name, total transaction price, as well	
		purchasedate. month contains: 1	as information on the purchase in table format.	as information on the purchase in table format. receipt[0].item s[0] contains	
		purchasedate.d ay contains: 1	receipt[0].item s[0] contains		
		info on the product in			
		*itemsincart contains: 3	receipt[0].item s[1] contains info on the	receipt[0].item s[1] contains info on the	
		Cart[0].product ID contains: 1	product in cart[2]	product in cart[2]	
		Cart[0].itemNa me contains: KFC Spoon	*receiptAmou nt contains: 1	*receiptAmou nt contains: 1	
		Cart[0].itemCat egory contains:	*itemsincart contains: 1	*itemsincart contains: 1	
		Utensil Cart[0].itemDes	The stock of productID 1 decreases by	The stock of productID 1 decreases by	
		c contains: it's a spoon	the 5, stock of productID 2 decreases by 3	the 5, stock of productID 2 decreases by 3	
			Cart[0].itemPri ce contains: Transactions.tx Tran 9999.00 t also gets t also	Transactions.tx t also gets updated to	
		Cart[0].sellerID contains: 1	include the information on the purchase	include the information on the purchase	
		Cart[0].itemQty contains: 5	3.5 paronaco		
		Cart[1].product ID contains: 7			
 L					

		Cart[1].itemNa me contains: Fireworks Cart[1].itemCat			
		egory contains: Explosives			
		Cart[1].itemDes c contains: Fleeting joy			
		Cart[1].itemPri ce contains: 100.00			
		Cart[1].sellerID contains: 2			
		Cart[1].itemQty contains: 5			
		Cart[2].product ID contains: 2			
		Cart[2].itemNa me contains: KFC Chicken			
		Cart[2].itemCat egory contains: Food			
		Cart[2].itemDes c contains: kentucky fried			
		Cart[2].itemPri ce contains: 100.00			
		Cart[2].sellerID contains: 1			
		Cart[2].itemQty contains: 3			
		*receiptAmoun t contains: 0			
3	No item in cart has the sellerID	tempsellerID contains: 1	Nothing happens	Nothing happens	Р
		person.userID contains: 20			

1	1				
		purchasedate. month contains:			
		purchasedate.d ay contains: 1			
		purchasedate.y ear contains: 2022			
		*itemsincart contains: 1			
		Cart[0].product ID contains: 7			
		Cart[0].itemNa me contains: Fireworks			
		Cart[0].itemCat egory contains: Explosives			
		Cart[0].itemDes c contains: Fleeting joy			
		Cart[0].itemPri ce contains: 100.00			
		Cart[0].sellerID contains: 2			
		Cart[0].itemQty contains: 5			
		*receiptAmoun t contains: 0			
4	There are no items in cart	tempsellerID contains: 1	Nothing happens	Nothing happens	Р
		person.userID contains: 20			
		purchasedate. month contains:			
		purchasedate.d ay contains: 1			

	purchasedate.y ear contains: 2022		
	*itemsincart contains: 0		
	*receiptAmoun t contains: 0		

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
CheckOutIt em	1	User enters a product ID that does not exist	tempprodID contains: -5	Prints the message "PRODUCT NOT FOUND!"	Prints the message "PRODUCT NOT FOUND!"	Р
	2	User enters a product ID within the cart	tempprodID contains: 23 person.userID contains: 20 purchasedate contains: 1 1 2018 cart[1].productI D contains: 23 cart[1].sellerID contains: 11 cart[1].itemPric e contains: 10.00 cart[1].itemQty contains: 3 (sellerID of the item matches userID) otherpeople[10]. userName contains: Micole items[22].item Qty contains:	receipt[0].date s contains: 1 1 2018 receipt[0].buy erID contains: 20 receipt[0].sell erID contains: 11 receipt[0].tran sactAmount contains: 30.00 receipt[0].item s[0] contains: cart[1] sellerName contains: Micole items[22].item Qty contains: 195 Transactions.tx t also gets updated to include the	receipt[0].date s contains: 1 1 2018 receipt[0].buy erlD contains: 20 receipt[0].sell erlD contains: 11 receipt[0].tran sactAmount contains: 30.00 receipt[0].item s[0] contains: cart[1] sellerName contains: Micole items[22].item Qty contains: 195 Transactions.tx t also gets updated to include the	P

User inputs a product ID that exists, but not within the cart tempprodID contains: 5 person.userID contains: 20 purchasedate contains: 11 2018 cart[1].productl D contains: 23 cart[1].sellerID contains: 11 cart[1].itemPric e contains: 10.00 cart[1].itemQty contains: 3 (sellerID of the item matches			receipt[0].items [0].itemQty contains: 5	information on the purchase	information on the purchase	
userID) otherpeople[10]. userName contains: Micole items[22].item Qty contains: 200 receipt[0].items [0].itemQty contains: 5	3	product ID that exists, but not	contains: 5 person.userID contains: 20 purchasedate contains: 1 1 2018 cart[1].productI D contains: 23 cart[1].sellerID contains: 11 cart[1].itemPric e contains: 10.00 cart[1].itemQty contains: 3 (sellerID of the item matches userID) otherpeople[10]. userName contains: Micole items[22].item Qty contains: 200 receipt[0].items [0].itemQty	message "PRODUCT	message "PRODUCT	P

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
CheckOut Menu	1	Loaded cart's price is the same as items[]'s price	cart[0].productID contains: 1 cart[0].itemQty contains: 5	If nChoice contains: 1, user gets brought to	If nChoice contains: 1, user gets brought to	Р

		ı			,
	and cart's quantity doesn't exceed current available stock	cart[0].itemPrice contains: 9999.00 items[0].productl D contains: 1 items[0].itemQty contains: 10 items[0].itemPric e contains: 9999.00 purchasedate.m onth contains: 1	CheckOutAll If nChoice contains: 2, user gets brought to CheckOutSelle r If nChoice contains: 3, user gets brought to CheckOutItem If nChoice	CheckOutAll If nChoice contains: 2, user gets brought to CheckOutSelle r If nChoice contains: 3, user gets brought to CheckOutItem If nChoice	
		purchasedate.da y contains: 1 purchasedate.ye ar contains: 2022 nChoice contains a value inputted	contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu	contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu	
		by the user	If nChoice contains a value outside of 1-4, user gets asked to input valid value	If nChoice contains a value outside of 1-4, user gets asked to input valid value	
2	Loaded cart's price is the same as items[]'s price but cart's quantity exceeds	cart[0].productID contains: 1 cart[0].itemQty contains: 5 cart[0].itemPrice contains: 9999.00	Prints the message "SELLER HAS UPDATED ITEM 'KFC Spoon's PRICE	Prints the message "SELLER HAS UPDATED ITEM 'KFC Spoon's PRICE	Р
	current available stock	items[0].productl D contains: 1	AND/OR QUANTITY NEW PRICE:	AND/OR QUANTITY NEW PRICE:	
		items[0].itemQty contains: 4	9999.00 NEW	9999.00 NEW	
		items[0].itemPric e contains: 9999.00	QUANTITY: 4 You can still	QUANTITY: 4 You can still	
		purchasedate.m onth contains: 1	edit your cart if you want to make	edit your cart if you want to make	
		y contains: 1 purchasedate.ye	changes!" cart[0].itemQty	changes!" cart[0].itemQty	
		ar contains: 2022	contains: 4	contains: 4	

		I			1
		nChoice contains a value inputted by the user	cart[0].itemPric e contains: 9999.00	cart[0].itemPric e contains: 9999.00	
			contains: 1, user gets brought to CheckOutAll	contains: 1, user gets brought to CheckOutAll	
			If nChoice contains: 2, user gets brought to CheckOutSelle r	If nChoice contains: 2, user gets brought to CheckOutSelle r	
			If nChoice contains: 3, user gets brought to CheckOutItem	If nChoice contains: 3, user gets brought to CheckOutItem	
			If nChoice contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu	If nChoice contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu	
			If nChoice contains a value outside of 1-4, user gets asked to input valid value	If nChoice contains a value outside of 1-4, user gets asked to input valid value	
3	Loaded cart's price is not the same as items[]'s price and cart's	cart[0].productID contains: 1 cart[0].itemQty contains: 5	Prints the message "SELLER HAS UPDATED ITEM 'KFC	Prints the message "SELLER HAS UPDATED ITEM 'KFC	Р
	quantity doesn't exceed current available stock	cart[0].itemPrice contains: 9999.00 items[0].productI	Spoon's PRICE AND/OR QUANTITY	Spoon's PRICE AND/OR QUANTITY	
		D contains: 1 items[0].itemQty contains: 10	NEW PRICE: 8888.00	NEW PRICE: 8888.00	
		items[0].itemPric e contains:	NEW QUANTITY: 10	NEW QUANTITY: 10	

		0000 00			
		purchasedate.m onth contains: 1 purchasedate.da y contains: 1	You can still edit your cart if you want to make changes!"	You can still edit your cart if you want to make changes!"	
		purchasedate.ye ar contains: 2022	cart[0].itemPric e contains: 8888.00	cart[0].itemPric e contains: 8888.00	
		nChoice contains a value inputted by the user	If nChoice contains: 1, user gets brought to CheckOutAll	If nChoice contains: 1, user gets brought to CheckOutAll	
			If nChoice contains: 2, user gets brought to CheckOutSelle r	If nChoice contains: 2, user gets brought to CheckOutSelle r	
			If nChoice contains: 3, user gets brought to CheckOutItem	If nChoice contains: 3, user gets brought to CheckOutItem	
			If nChoice contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu	If nChoice contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu	
			If nChoice contains a value outside of 1-4, user gets asked to input valid value	If nChoice contains a value outside of 1-4, user gets asked to input valid value	
4	Loaded cart's price is not the same as items[]'s price and cart's	cart[0].productID contains: 1 cart[0].itemQty contains: 5	Prints the message "SELLER HAS UPDATED ITEM 'KFC	Prints the message "SELLER HAS UPDATED ITEM 'KFC	Р
	quantity exceeds current available stock	cart[0].itemPrice contains: 9999.00 items[0].productl	Spoon's PRICE AND/OR QUANTITY	Spoon's PRICE AND/OR QUANTITY	

	D contains: 1	NEW DDICE.	NEW DDIOE.
	items[0].itemQty contains: 4	NEW PRICE: 8888.00	NEW PRICE: 8888.00
	items[0].itemPric e contains: 8888.00	NEW QUANTITY: 4	NEW QUANTITY: 4
	purchasedate.m onth contains: 1	You can still edit your cart if you want to	You can still edit your cart if you want to make
	purchasedate.da y contains: 1	make changes!"	changes!"
	purchasedate.ye ar contains: 2022	cart[0].itemQty contains: 4	cart[0].itemQty contains: 4
	nChoice contains a value inputted by the user	cart[0].itemPric e contains: 8888.00	cart[0].itemPric e contains: 8888.00
		If nChoice contains: 1, user gets brought to CheckOutAll	If nChoice contains: 1, user gets brought to CheckOutAll
		If nChoice contains: 2, user gets brought to CheckOutSelle r	If nChoice contains: 2, user gets brought to CheckOutSelle r
		If nChoice contains: 3, user gets brought to CheckOutItem	If nChoice contains: 3, user gets brought to CheckOutItem
		If nChoice contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu	If nChoice contains: 4, user exits CheckOutmen u and gets brought back to BuyMenu
		If nChoice contains a value outside of 1-4, user gets asked to input valid value	If nChoice contains a value outside of 1-4, user gets asked to input valid value

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
BuyMenu	1	User selects the option to view all products	nChoice contains: 1	UserIDs are sorted, products of each user is shown page by page	UserIDs are sorted, products of each user is shown page by page	Р
	2	User selects the option to view a specific seller's products	nChoice contains: 2	Program asks the user for a sellerID input, then calls ShowSpecific Seller	Program asks the user for a sellerID input, then calls ShowSpecific Seller	Р
	3	User selects the option to search product by category	nChoice contains: 3	User gets transported to SearchCateg ory	User gets transported to SearchCateg ory	Р
	4	User selects the option to search product by name	nChoice contains: 4	User gets transported to SearchPNam e	User gets transported to SearchPNam e	Р
	5	User selects the option to add to cart	nChoice contains: 5	User gets transported to AddtoCart	User gets transported to AddtoCart	Р
	6	User selects the option to edit cart	nChoice contains: 6	User gets transported to EditCart	User gets transported to EditCart	Р
	7	User selects the option to go to the checkout menu	nChoice contains: 7	User gets transported to CheckOutMe nu	User gets transported to CheckOutMe nu	Р
	8	User selects the option to exit	nChoice contains: 8	Program transports user back to main menu	Program transports user back to main menu	Р
	9	User inputs an invalid number	nChoice contains: 9	Program asks user for input again	Program asks user for input again	Р

ADMIN MENU

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
checkDate Range	1	Date Input is has greater than start date year and less than end date year	Transactions[i]. dates contains the date 4/7/2023 startDate contains 1/1/2020 endDate contains: 2/2/2024 WithinDate contains: 0	WithinDate contains: 1	WithinDate contains: 1	P
	2	Date Input is has equal years and within the month range	Transactions[i]. dates contains the date 4/7/2023 startDate contains 3/1/2023 endDate contains: 5/2/2023 WithinDate contains: 0	WithinDate contains: 1	WithinDate contains: 1	Р
	3	Date Input is has equal years and equal months and within the day range	Transactions[i]. dates contains the date 4/7/2023 startDate contains 4/1/2023 endDate contains: 4/8/2023 WithinDate contains: 0	WithinDate contains: 1	WithinDate contains: 1	Р
	4	Date Input is has equal year as	Transactions[i]. dates contains	WithinDate contains: 1	WithinDate contains: 1	Р

	startDate, month is greater than startDate and	the date 4/7/2023			
	within the range	startDate contains 3/1/2023			
		endDate contains: 4/8/2024			
		WithinDate contains: 0			
5	Date Input is has equal year as endDate, month is less than	Transactions[i]. dates contains the date 4/7/2023	WithinDate contains: 1	WithinDate contains: 1	Р
	endDate and within the range	startDate contains 9/1/2022			
		endDate contains: 5/1/2023			
		WithinDate contains: 0			
6	Date Input is greater than endDate year	Transactions[i]. dates contains the date 4/7/2023	WithinDate contains: 0	WithinDate contains: 0	Р
		startDate contains 9/1/2021			
		endDate contains: 5/1/2022			
		WithinDate contains: 0			

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
getTransac tion	1	Transactions.txt does not exist yet	N/A	Prints the message "Cannot open	Prints the message "Cannot open	Р

			file."	file."	
2	Transactions.txt exists but does not contain data		Nothing changes	Nothing changes	Р
3	Transactions.txt exists and contains data	*transNo contains: 0 Transactions.txt contains: 20 4 7 2023 Fireworks [Yoi] 22 7 100.00 = 2 Naganohara Yoimiya 2200.00 -	transactions[0]. buyerID contains: 20 transactions[0]. dates.month contains: 4 transactions[0]. dates.day contains: 7 transactions[0]. dates.year contains: 2023 transactions[0].items[0].items[0].items[0].itemValue me contains: 22 transactions[0].itemQt y contains: 22 transactions[0].itemS[0].items[0].produc tID contains: 7 transactions[0].itemS[0].items[0].items[0].itemS[transactions[0]. buyerID contains: 20 transactions[0]. dates.month contains: 4 transactions[0]. dates.day contains: 7 transactions[0]. items[0].	P

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F	
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ShowTotal Sales	1	Start and end date encapsulate s all the transactions	Start date input: 5/2/2021 End date input: 2/24/2024 Date: 4/7/2023 transactions[0].trans actAmount contains: 2200.00 Date: 2/22/2024 transactions[1].trans actAmount contains: 10588.00 transactions[2].trans actAmount contains: 440.00 Date: 5/12/2021 transactions[3].trans actAmount contains: 25000.00 transactions[4].trans actAmount contains: 20.00 totalTransaction contains: 0.00	totalTransactio n contains: 38248.00	totalTransactio n contains: 38248.00	P
	2	Start and end date encapsulate s two of the transactions	Start date input: 5/2/2021 End date input: 7/22/2022 Date: 4/7/2023 transactions[0].trans actAmount contains: 2200.00 Date: 2/22/2024 transactions[1].trans actAmount contains: 10588.00 transactions[2].trans actAmount contains: 440.00 Date: 5/12/2021 transactions[3].trans actAmount contains: 25000.00 transactions[4].trans actAmount contains: 25000.00 transactions[4].trans actAmount contains: 20.00 totalTransaction	totalTransactio n contains: 25020.00	totalTransactio n contains: 25020.00	P

		contains: 0.00			
3	Start and end date encapsulate s none of the transactions	Start date input: 5/2/2025 End date input: 7/22/2026 Date: 4/7/2023 transactions[0].trans actAmount contains: 2200.00 Date: 2/22/2024 transactions[1].trans actAmount contains: 10588.00 transactions[2].trans actAmount contains: 440.00 Date: 5/12/2021 transactions[3].trans actAmount contains: 25000.00 transactions[4].trans actAmount contains: 25000.00 transactions[4].trans actAmount contains: 20.00 totalTransaction contains: 0.00	totalTransactio n contains: 0.00	totalTransactio n contains: 0.00	P

Function	#	Descripti on	Sample Input Data	Expected Output	Actual Output	P/F
ShowSeller sSales	1	Date input encapsula tes all transactio ns	Start date input: 5/2/2021 End date input: 2/24/2024 Date: 4/7/2023 transactions[0].sellerID contains: 2(index 1 in users array) transactions[0].transact Amount contains: 2200.00 Date: 2/22/2024 transactions[1].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 10588.00	totalTransaction [0] contains: 10588.00 totalTransaction [1] contains: 2200.00 totalTransaction [5] contains: 440.00 totalTransaction [8] contains: 25000.00 totalTransaction [10] contains: 20.00	totalTransaction [0] contains: 10588.00 totalTransaction [1] contains: 2200.00 totalTransaction [5] contains: 440.00 totalTransaction [8] contains: 25000.00 totalTransaction [10] contains: 20.00	P

2	Date input	transactions[2].sellerID contains: 6 (index 5) transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8) transactions[3].transact Amount contains: 25000.00 transactions[4].sellerID contains: 11 (index 10) transactions[4].transact Amount contains: 20.00 totalTransaction[0] contains: 0.00 totalTransaction[1] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[8] contains: 0.00 totalTransaction[10] contains: 0.00 totalTransaction[10] contains: 0.00 totalTransaction[10] contains: 0.00 Start date input:	totalTransaction	totalTransaction	
	Date input encapsula tes multiple transactio ns with the same seller ID	9/24/2023 End date input: 2/24/2027 Date: 4/7/2023 transactions[0].sellerID contains: 2(index 1 in users array) transactions[0].transact Amount contains: 2200.00 Date: 2/22/2024 transactions[1].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 10588.00 transactions[2].sellerID contains: 6 (index 5) transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8)	[0] contains: 10832.00 totalTransaction [2] contains: 100000.00 totalTransaction	[0] contains: 10832.00 totalTransaction [2] contains: 100000.00 totalTransaction [5] contains: 440.00	

transactions[3],transact Amount contains: 25000.00 transactions[4],sellerID contains: 11 (ndex 10) transactions[4],transact Amount contains: 20.00 Date: 9/25/2023 transactions[5],sellerID contains: 1 (index 0) transactions[6],transact Amount contains: 100000.00 totalTransaction[0] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[6] contains: 0.00 totalTransaction[6] contains: 0.00 totalTransaction[6] contains: 0.00 totalTransaction[7] contains: 0.00 contains: 0.00 pate: 2/22/2024 transactions[7].sellerID contains: 0.00 transactions[7].sellerID contains: 0.00 pate: 5/12/2021 transactions[9].sellerID contains: 9 (index 8)	1		T	T		,
contains: 11 (index 10) transactions[3], transact Amount contains: 20.00 Date: 9/25/2023 transactions[5], sellerID contains: 1 (index 0) transactions[5], sellerID contains: 3 (index 2) transactions[6], transact Amount contains: 10000.00 totalTransaction[0] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[5] contains: 0.00 totalTransaction[6] contains: 0.00 totalTra			Amount contains:			
transactions[5].sellerID contains: (index 0) transactions[5].transact Amount contains: 244.00 transactions[6].sellerID contains: 0.00 totalTransaction[0] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[5] contains: 0.00 Each element in totalTransaction array contains: 0.00 pare: 4/7/2023 transaction array contains: 0.00 Date: 4/7/2023 transact Amount contains: 2(index 1 in users array) transactions[0].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 1 (index 0) transactions[1].transact Amount contains: 1 (index 0) transactions[2].sellerID contains: 6 (index 5) transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transact Amount contains: 3 (index 8)			contains: 11 (index 10) transactions[4].transact			
contains: 3 (index 2) transactions[6].transact Amount contains: 100000.00 totalTransaction[0] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[5] contains: 0.00 start date input: 9/24/2026 End date input: 2/24/2027 Date: 4/7/2023 transactions[0].sellerID contains: 2(index 1 in users array) transactions[0].transact Amount contains: 2200.00 Date: 2/22/2024 transactions[1].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 1 (index 5) transactions[2].transact Amount contains: 1 (index 5) transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transact Amount contains: 440.00 Date: 5/12/2021 transact Amount contains: 440.00 Date: 5/12/2021 transact Amount contains: 9 (index 8)			transactions[5].sellerID contains: 1 (index 0) transactions[5].transact			
totalTransaction[2] contains: 0.00 totalTransaction[5] contains: 0.00 TotalTransaction[5] contains: 0.00 Start date input: 9/24/2026 End date input: 2/24/2027 Date: 4/7/2023 transactions[0].sellerID contains: 1 (index 0) transactions[1].sellerID contains: 1 (index 0) transactions[1].rensact Amount contains: 10588.00 Transactions[2].transact Amount contains: 10588.00 Transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transact Amount contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8)			contains: 3 (index 2) transactions[6].transact Amount contains:			
contains: 0.00 totalTransaction[5] contains: 0.00 3 Date does not encapsula te any transaction n series array) transaction[0].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 10588.00 transactions[2].transact Amount contains: 10588.00 transactions[3].sellerID contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8)						
Start date input: 9/24/2026 End date input: 2/24/2027 Date: 4/7/2023 transactions[0].transact Amount contains: 10588.00 transactions[2].sellerID contains: 1 (index 5) transactions[2].transact Amount contains: 10588.00 transactions[2].sellerID contains: 6 (index 5) transactions[2].transact Amount contains: 4 (index 5) transactions[2].transact Amount contains: 10588.00 transactions[2].transact Amount contains: 10588.00 transactions[2].transact Amount contains: 10588.00 transactions[3].sellerID contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8)						
not encapsula te any transaction n Date: 4/7/2023 transact Amount contains: 10588.00 Transactions[0].sellerID contains: 10588.00 Transactions[1].sellerID contains: 10588.00 Transactions[2].sellerID contains: 440.00 Date: 5/12/2021 transact Amount contains: 9 (index 8) Transactions[3].sellerID contains: 6 (index 5) transactions[3].sellerID contains: 6 (index 6) transactions[3].sellerID contains: 9 (index 8)						
transaction n Date: 4/7/2023 transactions[0].sellerID contains: 2(index 1 in users array) transactions[0].transact Amount contains: 2200.00 Date: 2/22/2024 transactions[1].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 10588.00 transactions[2].sellerID contains: 6 (index 5) transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8)						
transactions[1].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 10588.00 transactions[2].sellerID contains: 6 (index 5) transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8)	3	not encapsula	9/24/2026 End date input:	totalTransaction array contains:	totalTransaction array contains:	Р
contains: 6 (index 5) transactions[2].transact Amount contains: 440.00 Date: 5/12/2021 transactions[3].sellerID contains: 9 (index 8)	3	not encapsula te any transactio	9/24/2026 End date input: 2/24/2027 Date: 4/7/2023 transactions[0].sellerID contains: 2(index 1 in users array) transactions[0].transact Amount contains:	totalTransaction array contains:	totalTransaction array contains:	P
transactions[3].sellerID contains: 9 (index 8)	3	not encapsula te any transactio	9/24/2026 End date input: 2/24/2027 Date: 4/7/2023 transactions[0].sellerID contains: 2(index 1 in users array) transactions[0].transact Amount contains: 2200.00 Date: 2/22/2024 transactions[1].sellerID contains: 1 (index 0) transactions[1].transact Amount contains:	totalTransaction array contains:	totalTransaction array contains:	P
transactions[3].transact	3	not encapsula te any transactio	9/24/2026 End date input: 2/24/2027 Date: 4/7/2023 transactions[0].sellerID contains: 2(index 1 in users array) transactions[0].transact Amount contains: 2200.00 Date: 2/22/2024 transactions[1].sellerID contains: 1 (index 0) transactions[1].transact Amount contains: 10588.00 transactions[2].sellerID contains: 6 (index 5) transactions[2].transact	totalTransaction array contains:	totalTransaction array contains:	P

	Amount contains: 25000.00		
	transactions[4].sellerID contains: 11 (index 10) transactions[4].transact Amount contains: 20.00		
	Date: 9/25/2023 transactions[5].sellerID contains: 1 (index 0) transactions[5].transact Amount contains: 244.00		
	transactions[6].sellerID contains: 3 (index 2) transactions[6].transact Amount contains: 100000.00		
	totalTransaction[0] contains: 0.00		

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
ShowShop aholics	1	Date inputs encapsulate all transactions	Start date input: 5/2/2021 End date input: 2/24/2024 Date: 4/7/2023 transactions[0].b uyerID contains: 20 (index 19 in users array) transactions[0].tr ansactAmount contains: 2200.00 Date: 2/22/2024 transactions[1].b uyerID contains: 3 (index 2) transactions[1].tr ansactAmount contains: 10588.00 transactions[2].b uyerID contains: 3 (index 2) transactions[2].b uyerID contains: 3 (index 2)	totalTransactio n[0] contains: 25020.00 totalTransactio n[2] contains: 11028.00 totalTransactio n[3] contains: 100244.00 totalTransactio n[19] contains: 2200.00	totalTransactio n[0] contains: 25020.00 totalTransactio n[2] contains: 11028.00 totalTransactio n[3] contains: 100244.00 totalTransactio n[19] contains: 2200.00	P
			transactions[2].b uyerID contains: 3			

		contains: 440.00			
		Date: 5/12/2021 transactions[3].b uyerID contains: 1 (index 0) transactions[3].tr ansactAmount contains: 25000.00			
		transactions[4].b uyerID contains: 1 (index 0) transactions[4].tr ansactAmount contains: 20.00			
		Date: 9/25/2023 transactions[5].b uyerID contains: 4 (index 3) transactions[5].tr ansactAmount contains: 244.00			
		transactions[6].b uyerID contains: 4 (index 3) transactions[6].tr ansactAmount contains: 100000.00			
		totalTransaction[0] contains: 0.00			
		totalTransaction[2] contains: 0.00			
		totalTransaction[3] contains: 0.00			
		totalTransaction[19] contains: 0.00			
2	Date inputs encapsulates only one of the buyer's	Start date input: 1/2/2024 End date input: 2/24/2024	totalTransactio n[2] contains: 11028.00	totalTransactio n[2] contains: 11028.00	Р
	transactions	Date: 4/7/2023 transactions[0].b uyerID contains: 20(index 19 in users array) transactions[0].tr ansactAmount contains: 2200.00			
	2	encapsulates only one of the buyer's	Date: 5/12/2021 transactions[3].b uyerID contains: 1 (index 0) transactions[3].tr ansactAmount contains: 25000.00 transactions[4].b uyerID contains: 1 (index 0) transactions[4].tr ansactAmount contains: 20.00 Date: 9/25/2023 transactions[5].b uyerID contains: 4 (index 3) transactions[6].tr ansactAmount contains: 244.00 transactions[6].tr ansactAmount contains: 4 (index 3) transactions[6].tr ansactAmount contains: 100000.00 totalTransaction[0] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[19] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[3] contains: 0.00 totalTransaction[19] contains: 0.00	Date: 5/12/2021 transactions[3].b uyerID contains: 1 (index 0) transactIons[4].b uyerID contains: 1 (index 0) transactions[4].b uyerID contains: 1 (index 0) transactions[4].tr ansactAmount contains: 20.00 Date: 9/25/2023 transactions[5].tr ansactAmount contains: 4 (index 3) transactions[6].b uyerID contains: 4 (index 3) transactIons[6].tr ansactAmount contains: 244.00 transactions[6].tr ansactAmount contains: 0.00 totalTransaction[0] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[3] contains: 0.00 totalTransaction[19] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[2] contains: 0.00 totalTransaction[19] contains: 0.00	Date: 5/12/2021 transactions[3].b uyerID contains: 1 (index 0) transactions[3].tr ansactAmount contains: 25000.00

1	T	T			
		Date: 2/22/2024 transactions[1].b uyerID contains: 3 (index 2) transactions[1].tr ansactAmount contains: 10588.00 transactions[2].b uyerID contains: 3 (index 2) transactions[2].tr ansactAmount contains: 440.00 Date: 5/5/2025 transactions[1].b uyerID contains: 3 (index 2) transactions[1].tr ansactAmount contains: 10588.00 transactions[2].b uyerID contains: 3 (index 2) transactions[2].b uyerID contains: 3 (index 2) transactions[2].tr ansactAmount contains: 440.00 totalTransaction[2] contains: 0.00			
3	Date inputs encapsulates none of any buyer's transactions	Start date input: 1/2/2000 End date input: 2/24/2020 Date: 4/7/2023 transactions[0].b uyerID contains: 20(index 19 in users array) transactions[0].tr ansactAmount contains: 2200.00 Date: 2/22/2024 transactions[1].b uyerID contains: 3 (index 2) transactions[1].tr ansactAmount contains: 10588.00	Each element in totalTransactio n array remains at 0.00	Each element in totalTransactio n array remains at 0.00	P

	transactions[2].b uyerID contains: 3 (index 2) transactions[2].tr ansactAmount contains: 440.00		
	Date: 5/5/2025 transactions[1].b uyerID contains: 3 (index 2) transactions[1].tr ansactAmount contains: 10588.00		
	transactions[2].b uyerID contains: 3 (index 2) transactions[2].tr ansactAmount contains: 440.00		
	totalTransaction[2] contains: 0.00 totalTransaction[19] contains: 0.00		

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
AdminMen u	1	User tries to see all the registered users	inputPassword contains: H3LLo? nChoice contains: 1	showUsers gets called	showUsers gets called	Р
	2	User tries to see all the registered sellers	inputPassword contains: H3LLo? nChoice contains: 2	showAllSellers gets called	showAllSellers gets called	Р
	3	User tries to see total sales in a given duration	inputPassword contains: H3LLo? nChoice contains: 3	ShowTotalSale s gets called	ShowTotalSale s gets called	Р

4	User tries to see seller sales in a given duration	inputPassword contains: H3LLo? nChoice contains: 4	ShowSellersSal es gets called	ShowSellersS ales gets called	Р
5	User tries to see all the buyers in a given duration	inputPassword contains: H3LLo? nChoice contains: 5	ShowShopaholi cs gets called	ShowShopahol ics gets called	Р
6	User tries to exit	inputPassword contains: H3LLo? nChoice contains: 6	User gets brought back to the main menu	User gets brought back to the main menu	Р
7	User inputs an invalid number	inputPassword contains: H3LLo? nChoice contains: 7	Program asks user for input again	Program asks user for input again	Р
8	User inputs the wrong admin password	inputPassword contains: Hello!	Prints the message "Wrong Password!" then the user gets brought back to main menu	Prints the message "Wrong Password!" then the user gets brought back to main menu	Р

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Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
getString	1	Single word name	Input: Prince	string contains: "Prince"	string contains: "Prince"	Р
	2	Name with space in between	Input: Eula Lawrence	string contains: "Eula Lawrence"	string contains: "Eula Lawrence"	Р
	3	Address with multiple spaces	Input: St Miguel Warp	string contains: "St	string contains: "St	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
swap	1	itemType a has greater productID than itemType b	a.productID contains: 5 b.productID contains: 4	a.productID contains: 4 b.productID contains: 5	a.productID contains: 4 b.productID contains: 5	Р
	2	itemType b has greater productID than itemType a	a.productID contains: 5 b.productID contains: 6	a.productID contains: 5 b.productID contains: 6	a.productID contains: 5 b.productID contains: 6	Р
	3	itemType a has the same productID as itemType b	a.productID contains: 5 b.productID contains: 5	a.productID contains: 5 b.productID contains: 5	a.productID contains: 5 b.productID contains: 5	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
sortproduct ID	1	items' productIDs are unsorted	items[0].productID contains: 5 items[1].productID contains: 3 items[2].productID contains: 2	items[0].productID contains: 2 items[1].productID contains: 3 items[2].productID contains: 5	items[0].productl D contains: 2 items[1].productl D contains: 3 items[2].productl D contains: 5	Р
	2	items' productIDs are unsorted, first value is lowest	items[6].productID contains: 7 items[7].productID contains: 9 items[8].productID contains: 8	items[6].productID contains: 7 items[7].productID contains: 8 items[8].productID contains: 9	items[6].productl D contains: 7 items[7].productl D contains: 8 items[8].productl D contains: 9	Р
	3	items' productID's are sorted in increasing order	items[0].productID contains: 1 items[1].productID contains: 2 items[2].productID contains: 3	items[0].productID contains: 1 items[1].productID contains: 2 items[2].productID contains: 3	items[0].productl D contains: 1 items[1].productl D contains: 2 items[2].productl D contains: 3	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
count	1	itemType items[]	items[0].seller	count	count	Р

	has 6 items that has the sellerID of 1	ID up until items[5].seller ID contains: 1 person.userID contains: 1	contains: 6	contains: 6	
2	itemType items[] has 3 items that has the sellerID of 2	items[6].seller ID = 2 items[7].seller ID = 2 person.userID contains: 2	count contains: 2	count contains: 2	Р
3	itemType items[] has 1 items that has the sellerID of 3	items[8].seller ID = 3 person.userID contains: 3	count contains: 1	count contains: 1	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
sortUserID	1	OtherPeople[]'s userID are unsorted	otherpeople[0].use rID contains: 3 otherpeople[1].use rID contains:5 otherpeople[2].use rID contains: 2	otherpeople[0].use rID contains: 2 otherpeople[1].use rID contains:3 otherpeople[2].use rID contains: 5	otherpeople[0].u serID contains: 2 otherpeople[1].u serID contains:3 otherpeople[2].u serID contains: 5	Р
	2	Otherpeople[]'s userIDs are sorted in increasing order	otherpeople[3].use rID contains: 7 otherpeople[4].use rID contains:8 otherpeople[5].use rID contains: 9	otherpeople[3].use rID contains: 7 otherpeople[4].use rID contains:8 otherpeople[5].use rID contains: 9	otherpeople[3].u serID contains: 7 otherpeople[4].u serID contains:8 otherpeople[5].u serID contains: 9	Р
	3	Otherpeople[]'s userIDs are unsorted, last value is largest	otherpeople[3].use rID contains: 9 otherpeople[4].use rID contains:8 otherpeople[5].use rID contains: 10	otherpeople[3].use rID contains: 8 otherpeople[4].use rID contains: 9 otherpeople[5].use rID contains: 10	otherpeople[3].u serID contains: 8 otherpeople[4].u serID contains: 9 otherpeople[5].u serID contains: 10	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
LoadUsers	1	Users.txt does not exist yet	N/A	Prints the message	Prints the message	Р

			"Users.txt does not exist"	"Users.txt does not exist"	
2	Users.txt exist	N/A	users[] and *numberofuser s gets updated	users[] and *numberofus ers gets updated	Р
3	File contains data	Users.txt contains: 5 Secretpass Chester Mondstadt City 1101011	users[0].userID contains: 5 Users[0].passwo rd contains: Secretpass users[0].userNa me contains: Chester Users[0].addres s contains: Mondstadt City users[0].contact No contain: 1101011	users[0].userl D contains: 5 Users[0].pass word contains: Secretpass users[0].userN ame contains: Chester Users[0].addre ss contains: Mondstadt City users[0].conta ctNo contain: 1101011	Р

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
LoadItems	1	Items.txt does not exist yet	N/A	Prints the message "Items.txt does not exist"	Prints the message "Items.txt does not exist"	Р
	2	Items.txt exists	N/A	Items[] and *itemNo gets updated based on the contents of Items.txt	Items[] and *itemNo gets updated based on the contents of Items.txt	Р
	3	File contains data	Items.txt contains: 10 4 PlusCoupon Hopium Adds points to grade 20 999	Items[0].produc tID contains: 10 Items[0].sellerID contains: 4 Items[0].itemNa me contains: PlusCoupon Items[0].itemCa tegory contains: Hopium Items[0].itemDe sc contains: Adds points to grade	Items[0].produc tID contains: 10 Items[0].sellerI D contains: 4 Items[0].itemNa me contains: PlusCoupon Items[0].itemCa tegory contains: Hopium Items[0].itemDe sc contains: Adds points to grade	Р

	Items[0].itemQt y contains: 20 Items[0].itemPri ce contains: 999	Items[0].itemQt y contains: 20 Items[0].itemPri ce contains: 999	
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Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
SaveUsers	1	users[] does not contain any data	N/A	Users.txt remains empty	Users.txt remains empty	Р
	2	users[0] contains data	users[0].userID contains: 5 Users[0].passwo rd contains: Secretpass users[0].userNa me contains: Chester Users[0].address contains: Mondstadt City users[0].contact No contain: 1101011	Users.txt contains: 5 Secretpass Chester Mondstadt City 1101011	Users.txt contains: 5 Secretpass Chester Mondstadt City 1101011	Р
	3	users[0] and users[1] contains data	users[0].userID contains: 5 Users[0].passwo rd contains: Secretpass users[0].userNa me contains: Chester Users[0].address contains: Mondstadt City users[0].contact No contain: 1101011 users[1].userID contains: 6 Users[1].passwo rd contains: realpass users[1].userNa me contains: Stan Users[1].address contains: Apple Street users[1].contact No contain: 88888	Users.txt contains: 5 Secretpass Chester Mondstadt City 1101011 6 realpass Stan Apple Street 88888	Users.txt contains: 5 Secretpass Chester Mondstadt City 1101011 6 realpass Stan Apple Street 88888	P

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
Saveltems	1	items[] does not contain any data	N/A	Items.txt remains empty	Items.txt remains empty	Р
	2	items[0] contains data	Items[0].productl D contains: 10 Items[0].sellerID contains: 4 Items[0].itemNa me contains: PlusCoupon Items[0].itemCat egory contains: Hopium Items[0].itemDes c contains: Adds points to grade Items[0].itemQty contains: 20 Items[0].itemPric e contains: 999	Items.txt contains: 10 4 PlusCoupon Hopium Adds points to grade 20 999	Items.txt contains: 10 4 PlusCoupon Hopium Adds points to grade 20 999	P
	3	items[0] and items[1] contains data	Items[0].productI D contains: 10 Items[0].sellerID contains: 4 Items[0].itemNa me contains: PlusCoupon Items[0].itemCat egory contains: Hopium Items[0].itemDes c contains: Adds points to grade Items[0].itemQty contains: 20 Items[0].itemPric e contains: 15 Items[1].productI D contains: 15 Items[1].sellerID contains: 6 Items[1].itemNa me contains: Apple Items[1].itemCat egory contains: Food Items[1].itemDes c contains: an apple a day Items[1].itemQty contains: 100 Items[1].itemPric e contains: 20	Items.txt contains: 10 4 PlusCoupon Hopium Adds points to grade 20 999 15 6 Apple Food an apple a day 100 20	Items.txt contains: 10 4 PlusCoupon Hopium Adds points to grade 20 999 15 6 Apple Food an apple a day 100 20	P