



addCardToBinder	3	Fails if no copies of card are available.	Card "Zapdos" has count 0. addCardToBinder(...)	2 (No Copies)	2 (No Copies)		P
	1	Removes a card from a valid index.	Remove card at index 0 from non-empty binder.	TRUE	TRUE		P
removeCardFromBinder	2	Fails to remove from an invalid index.	Remove card at index 99 from binder.	FALSE	FALSE		P
performTrade	1	Successfully completes a valid trade.	Trade card at index 0 for a new valid card.	TRUE	TRUE		P
getBinders	1	Returns a list of all binder objects.	Manager has 4 binders.	ArrayList of size 4	ArrayList of size 4		P
Class: DeckManager							
Method	#	Test Description	Sample Input Data	Expected Output	Actual Output		P/F
	1	Finds an existing deck.	findDeck("Main Deck") when it exists.	Deck object	Deck object		P
findDeck	2	Returns null for non-existent deck.	findDeck("Side Deck") when it does not exist.	null	null		P
	1	Creates a new, unique deck.	createDeck("New Deck")	TRUE	TRUE		P
createDeck	2	Fails to create a deck with a duplicate name.	createDeck("New Deck") again.	FALSE	FALSE		P
	1	Deletes an existing deck.	deleteDeck("Old Deck")	TRUE	TRUE		P
deleteDeck	2	Fails to delete a non-existent deck.	deleteDeck("Non-existent Deck")	FALSE	FALSE		P
	1	Adds available card to valid deck.	addCardToDeck("Pikachu", "Main Deck")	0 (Success)	0 (Success)		P
addCardToDeck	2	Fails if card is duplicate in deck.	Deck has "Pikachu". addCardToDeck("Pikachu", ...)	4 (Duplicate)	4 (Duplicate)		P
	3	Fails if deck is full.	Deck has 10 cards. addCardToDeck(...)	3 (Full)	3 (Full)		P
removeCardFromDeck	1	Removes a card from a valid index.	Remove card at index 0 from non-empty deck.	TRUE	TRUE		P
getDecks	1	Returns a list of all deck objects.	Manager has 2 decks.	ArrayList of size 2	ArrayList of size 2		P
Class: Validator							
Method	#	Test Description	Sample Input Data	Expected Output	Actual Output		P/F
	1	Returns true for a non-blank string.	isValidName("Test")	TRUE	TRUE		P
isValidName	2	Returns false for a blank string.	isValidName(" ")	FALSE	FALSE		P
	3	Returns false for a null string.	isValidName(null)	FALSE	FALSE		P
	1	Returns true for a positive double.	isPositive(10.5)	TRUE	TRUE		P
	2	Returns false for a negative double.	isPositive(-0.1)	FALSE	FALSE		P
isPositive	3	Returns true for a positive integer.	isPositive(1)	TRUE	TRUE		P
	4	Returns false for a non-positive integer.	isPositive(0)	FALSE	FALSE		P
Class: Inputter							
Method	#	Test Description	Sample Input Data	Expected Output	Actual Output		P/F
	1	Returns integer on valid numeric input.	User enters "123"	123	123		P
getIntInput	2	Reprompts on invalid non-numeric input.	User enters "abc", then "45"	45	45		P
getStringInput	1	Returns the raw string entered by the user.	User enters " My Binder "	My Binder	My Binder		P
	1	Returns trimmed string on valid input.	User enters " Test Name "	Test Name	Test Name		P
getValidName	2	Reprompts on blank input.	User enters " ", then "Valid Name"	Valid Name	Valid Name		P
	1	Returns correct enum from valid numeric selection.	User is shown list, enters "3".	Rarity.RARE	Rarity.RARE		P
getValidRarity	2	Reprompts on invalid numeric selection.	User enters "99", then "2".	Rarity.UNCOMMON	Rarity.UNCOMMON		P
getValidVariant	1	Returns correct enum from valid numeric selection.	User enters "4".	Variant.ALT_ART	Variant.ALT_ART		P
	1	Returns double on valid positive input.	User enters "99.99"	99.99	99.99		P
getValidPositiveDouble	2	Reprompts on negative input.	User enters "-10.5", then "5.5"	5.5	5.5		P
	1	Returns int on valid positive input.	User enters "10"	10	10		P
getValidPositiveInt	2	Reprompts on zero input.	User enters "0", then "1"	1	1		P
Class: Display							
Method	#	Test Description	Sample Input Data	Expected Output	Actual Output		P/F
getHeader	1	Returns a formatted header string.	getHeader("TEST")	A string with separators and the centered title "TEST"	A string with separators and the centered title "TEST"		P
get...Menu	1	All get...Menu methods return a non-empty string.	Display.getMainMenu()	A valid menu String	A valid menu String		P
getCardDetails	1	Returns a formatted string of card details.	A valid Card object.	A multi-line string with all card attributes.	A multi-line string with all card attributes.		P
getList	1	Returns a formatted, numbered list of items.	An ArrayList of 3 strings.	A numbered list string with a title and 3 items.	A numbered list string with a title and 3 items.		P
Class: Handler							
Method	#	Test Description	Sample Input Data	Expected Output	Actual Output		P/F
	1	Displays collection and prompts for details view.	Collection has cards. User selects card #1.	Card #1 details are displayed.	Card #1 details are displayed.		P
handleViewCollection	2	Handles user backing out of details view.	Collection has cards. User selects "0" to go back.	No details are displayed; method returns.	No details are displayed; method returns.		P
	3	Handles an empty collection gracefully.	The collection has no cards.	Prints "Collection is empty."	Prints "Collection is empty."		P
	1	Successfully adds a new, unique card.	User enters valid, unique name "Pikachu", rarity "Rare", variant "Full-art", value "25.0".	Prints "Success! Card 'Pikachu' added." and the card is added to CollectionManager.	Prints "Success! Card 'Pikachu' added." and the card is added to CollectionManager.		P
handleAddNewCard	2	Fails to add a card with a duplicate name.	User enters "Pikachu" when it already exists in the CollectionManager.	Prints "A card with this name already exists." and no new card is added.	Prints "A card with this name already exists." and no new card is added.		P
	3	Reprompts for a blank name and then succeeds.	User enters blank name, then "Squirrel", then valid rarity/variant/value.	Prints "Card name cannot be blank." then "Success! Card 'Squirrel' added."	Prints "Card name cannot be blank." then "Success! Card 'Squirrel' added."		P
	1	Successfully increases the count of a card.	User selects "Pikachu" (count: 2), chooses action (1) Increase, enters amount "3".	Prints "Count updated." and card count in CollectionManager becomes 5.	Prints "Count updated." and card count in CollectionManager becomes 5.		P
	2	Successfully decreases the count of a card.	User selects "Pikachu" (count: 5), chooses action (2) Decrease, enters amount "2".	Prints "Count updated." and card count in CollectionManager becomes 3.	Prints "Count updated." and card count in CollectionManager becomes 3.		P
handleUpdateCardCount	3	Fails to decrease count more than available.	User selects "Pikachu" (count: 3), chooses action (2) Decrease, enters amount "5".	Prints "Operation failed..." and card count in CollectionManager remains 3.	Prints "Operation failed..." and card count in CollectionManager remains 3.		P
	4	Handles user backing out of selection.	User is prompted to select a card and enters "0".	The method returns to the previous menu without changing any state.	The method returns to the previous menu without changing any state.		P
	1	Displays cards in a selected binder.	User selects a binder with 3 cards.	A formatted list of 3 card names is printed.	A formatted list of 3 card names is printed.		P
handleViewBinders	2	Handles selection of an empty binder.	User selects a binder with 0 cards.	Prints "This binder is empty."	Prints "This binder is empty."		P
	1	Successfully creates a new binder with a unique name.	User enters a valid, unique name "Trade Binder".	Prints "Binder created successfully." and the binder is added to BinderManager.	Prints "Binder created successfully." and the binder is added to BinderManager.		P
handleCreateBinder	2	Fails to create a binder with a duplicate name.	User enters "Trade Binder" when it already exists.	The backend prints an error message, and no new binder is added.	The backend prints an error message, and no new binder is added.		P
	1	Successfully deletes an existing binder after confirmation.	User selects "Trade Binder", then confirms with "yes".	Prints "Binder deleted." and the binder is removed from BinderManager.	Prints "Binder deleted." and the binder is removed from BinderManager.		P
handleDeleteBinder	2	Cancel deletion if user does not confirm.	User selects "Trade Binder", then enters "no".	Prints "Deletion canceled." and the binder remains.	Prints "Deletion canceled." and the binder remains.		P
	1	Successfully adds an available card to a binder.	User selects "Trade Binder", then selects "Pikachu" (count > 0).	Prints "Card added." and the card moves from collection to binder.	Prints "Card added." and the card moves from collection to binder.		P
handleAddCardToBinder	2	Fails to add a card with zero available count.	User selects "Trade Binder", then selects "Mewtwo" (count > 0).	Prints "Failed to add card. ..." and no state is changed.	Prints "Failed to add card. ..." and no state is changed.		P
handleRemoveCardFromBin	1	Successfully removes a card from a binder.	User selects "Trade Binder", then selects an existing card "Pikachu" from it.	Prints "Card returned to collection." and the card moves from binder to collection.	Prints "Card returned to collection." and the card moves from binder to collection.		P
	1	Completes a valid trade.	User selects a binder, selects "Pikachu" to trade away, enters valid details for a new card "Charmander".	Prints "Trade successful" and "Pikachu" is gone, "Charmander" is now in the binder.	Prints "Trade successful" and "Pikachu" is gone, "Charmander" is now in the binder.		P
	2	Cancel an unfair trade upon user prompt.	Trade results in value difference >= \$1.00. User enters "no" when prompted to proceed.	Prints "Trade canceled." and no state is changed.	Prints "Trade canceled." and no state is changed.		P
handleTradeFromBinder	3	Fails if incoming card details are invalid.	User enters a blank name for the incoming card.	Prints "Incoming card name cannot be blank." and the trade is aborted.	Prints "Incoming card name cannot be blank." and the trade is aborted.		P
handleCreateDeck	1	Successfully creates a new deck.	User enters a valid, unique name "Main Deck"	Prints "Deck created successfully" and the deck is added to DeckManager.	Prints "Deck created successfully" and the deck is added to DeckManager.		P
	1	Fails to add a duplicate card to a deck.	User selects "Main Deck" (already contains "Pikachu"), then selects "Pikachu" to add.	Prints "Failed to add card. (...) or duplicate card". State is unchanged.	Prints "Failed to add card. (...) or duplicate card". State is unchanged.		P
handleAddCardToDeck	2	Successfully adds a unique card to a deck.	User selects "Main Deck", then selects "Squirrel" (which is not in the deck).	Prints "Card added." and the card moves from collection to deck.	Prints "Card added." and the card moves from collection to deck.		P
handleRemoveCardFromDe	1	Successfully removes a card from a deck.	User selects "Main Deck", then a card from its list.	Prints "Card removed and returned to collection."	Prints "Card removed and returned to collection."		P
handleDeleteDeck	1	Successfully deletes a deck after confirmation.	User selects "Main Deck" and confirms with "yes".	Prints "Deck deleted."	Prints "Deck deleted."		P
	1	Returns the correct Card object on valid selection.	User selects card #2 from the main collection list.	The Card object corresponding to the second item in the sorted list is returned.	The Card object corresponding to the second item in the sorted list is returned.		P
	2	Returns null when user chooses to go back.	User selects option "0".	null is returned.	null is returned.		P
selectCardFromCollection	3	Handles an empty collection gracefully.	Method is called when no cards exist.	Prints "Collection is empty." and returns null.	Prints "Collection is empty." and returns null.		P
	1	Returns the correct Card from a provided list.	A list of 3 cards is provided. User selects #3.	The third Card object from the sorted list is returned.	The third Card object from the sorted list is returned.		P
selectCardFromList	2	Returns null if the provided list is empty.	An empty ArrayList is provided.	Prints "There are no cards to select." and returns null.	Prints "There are no cards to select." and returns null.		P
	1	Returns the correct Binder on valid selection.	User selects binder #1 from the list.	The Binder object for the first item in the sorted list is returned.	The Binder object for the first item in the sorted list is returned.		P
selectBinder	2	Returns null when no binders exist.	Method is called when binder list is empty.	Prints "No binders exist." and returns null.	Prints "No binders exist." and returns null.		P

selectDeck	1	Returns the correct Deck on valid selection.	User selects deck #2 from the list.	The Deck object for the second item in the sorted list is returned.	The Deck object for the second item in the sorted list is returned.	P
	2	Returns null when no decks exist.	Method is called when deck list is empty.	Prints "No decks exist." and returns null.	Prints "No decks exist." and returns null.	P
findCardIndexInList	1	Returns the correct index for an existing card.	List contains ["A", "B", "C"]. Search for "B".			1 P
	2	Returns -1 for a non-existent card.	List contains ["A", "B", "C"]. Search for "D".			-1 P
Class: Menu						
Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
runMainMenu	1	Loops and waits for input, correctly delegates to a sub-menu.	User enters "1".	The Collection Menu is displayed.	The Collection Menu is displayed.	P
	2	Exits the loop when user enters "0".	User enters "0".	The runMainMenu method finishes execution.	The runMainMenu method finishes execution.	P
runCollectionMenu	1	Loops and correctly delegates to a handler method.	User enters "2".	The handler.handleAddNewCard() method is called.	The handler.handleAddNewCard() method is called.	P
runBinderMenu	1	Loops and correctly delegates to a handler method.	User enters "2".	The handler.handleCreateBinder() method is called.	The handler.handleCreateBinder() method is called.	P
runDeckMenu	1	Loops and correctly delegates to a handler method.	User enters "2".	The handler.handleCreateDeck() method is called.	The handler.handleCreateDeck() method is called.	P