BanSpiro, Ethan Prescott <spiroe@onid.oregonstate.edu>

I noticed there was some confusion regarding test cases and reflections for assignment #2. I believe I am on the right track, but would love some confirmation. I am happy to post these to Piazza as examples, if they are on the right track, but don't know if this is allowed. Posted below.  For #2 (even though we didn't need a test plan)   
Test Case Input Values Driver Functions Expected Outcomes Observed Outcomes Input too low Input < 0

main() do…while input < 0

Loop back to the question prompting user for input

Loop back to the question prompting user for input

Input at 0 Input = 0

main() try, throw, catch in main

Throws an exception from main

Throws an exception from main

Input in correct range

0 < input <= 10

main() calling recursive funTyler Forrester

Assignment 1: Test Cases

Calls the function recursively to that depth and throws an exception at that level

Calls the function recursively to that depth and throws an exception at that level

Input extreme low

Input = 1

main() calling recursive function

Calls the function recursively to that depth and throws an exception at that level

Calls the function recursively to that depth and throws an exception at that level

Input extreme high

Input = 10

main() calling recursive function

Calls the function recursively to that depth and throws an exception at that level

Calls the function recursively to that depth and throws an exception at that level

Input too high Input > 10

main() do…while input > 0

Loop back to the question prompting user for input

Loop back to the question prompting user for input

for #4 (where a test plan was required) Test Case Input Values Driver Functions Expected Outcomes Observed

Thanks for your time, Ethan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | Input Values | Driver Functions | Expected Outcomes | Observed Outcomes |
| Input < 1 | -1 | getChoice() | “The only valid choices are 1-4. Please re-enter. “ | "Invalid number, please try again" |
| Input > 4 | 5 | getChoice() | “The only valid choices are 1-4. Please re-enter. “ | The only valid choices are 1-4. Please re-enter. |
| Input is double or otherwise in valid | 5.0, A | InputValid::validateInt  getChoice() | "Invalid number, please try again" | "Invalid number, please try again" |
| Input = 1 | 1 | getChoice() | Generates new Item | Generates new Item |
| Input = 2 | 2 | getChoice() | Displays List | Displays List |
| Input = 3 | 3 | getChoice() | DisplaysList then asks user to pick item to be deleted. | DisplaysList then asks user to pick item to be deleted. |
| Input =4 | 4 | getChoice() | Exits Program. | Exits Program. |

Assignment1.cpp

UC-2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | Input Values | Driver Functions | Expected Outcomes | Observed Outcomes |
| User selects a menu item to create new item | Input = 1 | getChoice() List::input() | Generates new Item | Generates new Item |
| User enters item name | “Banana Pancakes” | addItem.setItemName(valid.validateString()) | Set Items Name “Banana Pancakes” | Set Items Name “Banana Pancakes” |
| User enters invalid item name | “Ban#$%[backspace]” | addItem.setItemName(valid.validateString()) | “Invalid String, please try again” | “Invalid String, please try again” |
| User enters number of units to buy | “5” | addItem.setNumberToBuy(valid.validateInt()); | Set numberToBuy | Set numberToBuy |
| User enter invalid; of units to buy | “3/4” | addItem.setNumberToBuy(valid.validateInt()); | “Invalid number please try again” | “Invalid number please try again” |
| User enters type of units | “lbs” | addItem.setUnit(valid.validateString()) | Set type of units | Set type of units |
| User enters invalid unit | “backspace” | addItem.setUnit(valid.validateString()) | “Invalid String, please try again” | “Invalid String, please try again” |
| User enters Price | “2.00” | addItem.setPrice(valid.validatePrice()) | setsPrice | setsPrice |
| User enters invalid Price | “1.3.3” | addItem.setPrice(valid.validatePrice()) | “Invalid Price, please try again” | “Invalid Price, please try again” |
| User enters c to move to main menu | “c” | continueOn(valid); | Continues to Main Menu | Continues to Main Menu |
| User presses c to move to main menu | “d” | continueOn(valid); | “Please enter ‘c’ to continue.” | “Please enter ‘c’ to continue.” |
| Add 5 Items | Add 5 Items | checklist(); Doublelist(); | Program continues to operate as normal. | Program continues to operate as normal. |
| User adds duplicate name | Banana | Input() Duplicate() | Program prompts user to change the number of bananas on shopping list. Bananas are successfully updated | Program prompts user to change the number of bananas on shopping list. Bananas are successfully updated |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | Input Values | Driver Functions | Expected Outcomes | Observed Outcomes |
| User selects a to displayList | Input = 2 | getChoice() | Calls Display List | Calls Display List |
| List Displayed | None | listDisplay() | Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list. | Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list. |
|  |  |  |  |  |

UC-3

UC-4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | Input Values | Driver Functions | Expected Outcomes | Observed Outcomes |
| User selects a to Delete Item | Input =3 | getChoice() | Calls Delete Item | Calls Delete Item |
| List Displayed | None | listDisplay() | Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list. | Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list. |
| User Selects Number of Item to Del. | Input = 2 | list.deleteItem(valid.validateInt()) | The item in position "” was deleted | The item in position 2 was deleted |
| User Selects Number of Item to Del. | Input = -1 | list.deleteItem(valid.validateInt()) | “The Item number was not found on the list. Please enter a new number” | “The Item number was not found on the list. Please enter a new number” |
| List has no Items | None, item array empty | checkDel() | "There are no items to delete." | "There are no items to delete." |
| List selects end Item | Input = 5 | list.deleteItem(valid.validateInt()) | The item in position "” was deleted | The item in position 5 was deleted |
| List selects > end Item | Input = 6 | list.deleteItem(valid.validateInt()) | The item number was not found on the list. Please enter a new number. | The item number was not found on the list. Please enter a new number. |