# CST8130 – Data Structures

# Assignment 2 – Test Plan

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## Add Item to Inventory

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| * 1. User enters:‘f’, ‘F’, ‘v’,’V’,’p’, or ‘P’. | ‘f’ or ‘F’  ‘v’ or ‘V’  ‘p’ or ‘P’ | Enter the code for the item: <any integer value>  Enter the name for the item: <any string value>  Enter the quantity of the item: <any integer value>  Enter the cost of the item: <any float value>  Enter the sales price of the item: <any float value> |  |
| * 1. User enters: ‘f’ or ‘F’ | ‘f’ or ‘F’ Only | (Same as output in ‘a’)- says wrong string but stores proper value  Enter the name of the orchard supplier: <any string value> |  |
| * 1. User enters: ‘v’ or ‘V’ | ‘v’ or ‘V’ Only | (Same as output in ‘a’)- says wrong string but stores proper value  Enter the name of the orchard supplier: <any string value> |  |
| * 1. User enters: ‘p’ or ‘P’ | ‘p’ or ‘P’ Only | (Same as output in ‘a’) – says wrong string but stores proper value  Enter the name of the orchard supplier:  <any string value> |  |
| * 1. User enters same Item code | 1  1  1  1  1  1  For both items | Item: 1 1 1 price: $1.00 cost: $1.00 orchard supplier: 1  Item: 1 1 1 price: $1.00 cost: $1.00 orchard supplier: 1 |  |
| * 1. Sorting the array upon entry | 219  219  219  219  219  219  For both items | Item: 1 1 1 price: $1.00 cost: $1.00 orchard supplier: 1  Item: 2 2 2 price: $2.00 cost: $2.00 orchard supplier: 2  Item: 9 9 9 price: $9.00 cost: $9.00 orchard supplier: 9 |  |

## Display Current Inventory

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Displays Inventory | 2 | Item: 1 1 1 price: $1.00 cost: $1.00 orchard supplier: 1 |  |

## Sell Item(s)

| No items made in the array |  | Error... could not buy item | fail |
| --- | --- | --- | --- |
| 1. Valid code | 123 | Enter valid quantity to buy: |  |
| 1. Invalid code | -1 f3 | Enter a code please |  |
| 1. Valid quantity to buy | 10 44 | Main menu |  |
| 1. Invalid quantity to buy | Saf 22222222222222 | Code not found in inventory\nError... could not sell item |  |
| 1. No items made in the array |  | Error... could not buy item |  |

## Search for Items

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. User searches for normal integer | 1 | Item: 1 1 1 price: $1.00 cost: $1.00 orchard supplier: 1 |  |
| 1. User searches for item without adding to arrayList | 1 | Error Occurred: Index -1 out of bounds for length 0 |  |
| 1. User Enters Incorrect Value | a | Incorrect value entered |  |

## Save to File

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Normal Input | 6  <Name of output file> | (No output) – successfully writes to the file |  |

## Read from File

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. (Attempted but does not work) | 7 | Enter Text file to read from |  |

## To Exit

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Exit | 8 | Exiting… |  |