# CST8130 – Data Structures

# Assignment 11 – Test Plan

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## Menu

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| * 1. Boundary test | 0 | Incorrect try again | Pass |
| * 1. Boundary test | 6 | Incorrect try again | Pass |
| * 1. Negative number | -1 | Incorrect try again | Pass |
| * 1. letter | t | Incorrect try again | Pass |
| * 1. correct choice | 1 | Continues | Pass |

## Add item

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Incorrect type | q | Incorrect try again | Pass |
| 1. Incorrect type | 1 | Incorrect try again | Pass |
| 1. Correct type | V | Continues | Pass |
| 1. Negative quantity | -1 | Incorrect try again | Pass |
| 1. Correct quantity | 33 | Continues | Pass |
| 1. Negative price | -1 | Incorrect try again | Pass |
| 1. Correct price | 1.12 | Continues | Pass |
| 1. Negative cost | -1 | Incorrect try again | Pass |
| 1. Correct Cost | 0.90 | Continues | Pass |
| 1. Input mismatch | p | Incorrect try again | Pass |

## Item code exists

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Add item code exists | 1 | Incorrect try again | Pass |
| 1. Buy item code doesn’t exist | 765 | Incorrect | Pass |
| 1. Buy item code exists | 1 | Continues | Pass |

## Quantity

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Buy input mismatch | T | Incorrect | Pass |
| 1. Buy negative | -1 | Incorrect | Pass |
| 1. Buy positive | 4 | Continues | Pass |
| 1. Sell mismatch | P | Incorrect | Pass |
| 1. Sell negative | -1 | Incorrect | Pass |
| 1. Sell too much | 111 | Incorrect | Pass |
| 1. Sell correct amount | 3 | Continues |  |

## Print

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Print items | 2 | Prints all items | Pass |

## File Output

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| * 1. New file name | Test.txt | Creates a new file named test.txt | Pass |
| * 1. Existing file name | MyInventory.txt | Overwrites existing file with inventory | Pass |
| * 1. File name with space | Test 1.txt | Creates a new file named test 1.txt | Pass |
| * 1. Empty inventory | Test.txt | Overwrites file to make a blank one | Pass |

## File Input

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| * 1. File does not exist | Random.txt | File not found, returns | Pass |
| * 1. File exists, correct format | MyInventory2.txt | Completes successfully | Pass |
| * 1. File exists, incorrect format | Testbad.txt | Error while reading | Pass |
| * 1. Item code exists | MyInventory.txt | Item code exists, returns | Pass |
| * 1. Item code exists after non existent items | TestingIC.txt | Item code exists, previous items added | Pass |

## Search Item

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| * 1. Search an item that doesn’t exist | 333 | Code not found, returns | Pass |
| * 1. Search an item that exists | 112 | Prints item | Pass |
| * 1. Search item code input mismatch | Oneone | Prints error, asks again | Pass |