# 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. Test invalid input | 9 | Error! | Pass |
| * 1. Test invalid input | A | Error! | Pass |
| * 1. Test invalid input | @ | Error! | Pass |
| * 1. Test valid input | 1 | Shows the next menu | Pass |

## Add fruit, vegetable, preserve.

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | 9 | Invalid option! | Pass |
| 1. Test invalid input | A | Invalid option! | Pass |
| 1. Test invalid input | @ | Invalid option! | Pass |
| 1. Test valid input | F, f | Added successfully | Pass |
| 1. Test valid input | V, v | Added successfully | Pass |
| 1. Test valid input | P, p | Added successfully | Pass |

## Buy Item

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | A | Error...could not buy item! | Pass |
| 1. Test invalid input | Value not in inventory | Code can not be found in inventory...  Error...could not buy item! | Pass |
| 1. Test invalid input | Negative or letter quantity | Invalid quantity...  Error...could not buy item! | Pass |
| 1. Test valid input | Any code in inventory | Goes to next menu | Pass |

## Sell Item

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | A | Error...could not sell item! | Pass |
| 1. Test invalid input | Value not in inventory | Code can not be found in inventory...  Error...could not sell item! | Pass |
| 1. Test invalid input | Negative or letter quantity | Invalid quantity...  Error...could not sell item! | Pass |
| 1. Test invalid input | Higher value than stock | Insufficient stock in inventory...  Error...could not sell item! | Pass |
| 1. Test valid input | Any code in inventory | Goes to next menu | Pass |

## Save

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test valid input | Normal Values | Saved file successfully | Pass |
| 1. Can’t save file | File is being used | ERROR: An error occurred | Pass |
| 1. Invalid file extension | Wrong file extension | ERROR: Invalid text file | Pass |

## Read

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Item code found | Values in inventory | Item code found in inventory error | Pass |
| 1. Test valid input | Values not in inventory | Items successfully added | Pass |
| 1. File not found | Invalid file name | File not found! | Pass |
| 1. Not correct format | Not correct format | Error Encountered while reading the file, aborting... | Pass |

## Search

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Item code found | Item code in inventory | Prints out item details | Pass |
| 1. Not Found | Item code not in inventory | Item not found | Pass |

<add more tables if you have more features to test>