# CST8130 – Data Structures

# Assignment <#2> – Test Plan

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## Menu System

| **Description of Test** | **Input Values** | **Output / Result** | **Pass/Fail** |
| --- | --- | --- | --- |
| * 1. Add items | 1 | Program runs succesfully next menu is brought up | PASS |
| * 1. Display items | 2 | Inventory \n Empty | PASS |
| * 1. Buy items | 3 | Input amount you want to buy | PASS |
| * 1. Sell items | 4 | Input item you want to sell | PASS |
| Search items | 5 | Search the array | PASS |
| Save to file | 6 | Ask user what they want to name file | PASS |
| Read from file | 7 | Ask user what file they want to read from | PASS |
| * 1. Invalid input | ! | Input mismatch exception | PASS |
| * 1. Invalid integer | 69 | Invalid input! | PASS |

## Search for item

| **Description of Test** | **Input Values** | **Output / Result** | **Pass/Fail** |
| --- | --- | --- | --- |
| Correct code | 101 | Searches for item | PASS |
| Invalid code | 19239 | Code cannot be found | PASS |
| Invalid input | ! | Invalid input + exception | PASS |
| Invalid input | e10 | Invalid input + exception | PASS |
|  |  |  |  |
|  |  |  |  |

## Save item to file

| **Description of Test** | **Input Values** | **Output / Result** | **Pass/Fail** |
| --- | --- | --- | --- |
| Valid file name | inventory1 | Creates file and saves inventory | PASS |
| Invalid file name | .. | Doesnt create file | PASS |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Read item from file

| **Description of Test** | **Input Values** | **Output / Result** | **Pass/Fail** |
| --- | --- | --- | --- |
| Valid file name | inventory1 | Creates file and saves inventory | PASS |
| Invalid file name | ..!<> | Doesnt create file | PASS |
| Non existent file | notafile | Error | FAIL |
|  |  |  |  |
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