# CST8130 – Data Structures

# Assignment <#> – Test Plan

# Written By - <Student Name>

<add more tables if you have more features to test. Add more rows if you have more test cases>

## Menu Processing

| Test# | Description of Test | Input Values | Expected Output | Actual Output | Status (Pass/Fail) |
| --- | --- | --- | --- | --- | --- |
|  | Delete with only one node in list | 1, “s1”, 4, “s1” | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Delete First item in list | 1, “s1”, 1, “s2”, 2 | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Delete node at end of list | 1, “s1”, 1, “s2”, 4, “s1” | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Delete node in middle of list | 1, “s1”, 1, “s2”, 1, “s3”, 4, “s2” | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Delete duplicate node at beginning of list | 1, “s1”, 1, “s1”, 4, “s1” | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Delete duplicate node at end of list | 1, “s1”, 1, “s1”, 1, “s2”, 4, “s1” | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Delete duplicate node in the middle of list | 1, “s1”, 1, “s2”, 1, “s2”, 1, “s3”, 4, “s2” | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Delete cascading nodes ie. disjointed nodes | 1, “s1”, 1, “s2”, 1, “s1”, 1, “s3”, 1, “s1”, 4, “s1” | “Found the data and deleted it” | “Found the data and deleted it” | pass |
|  | Attempt to delete from list when no nodes are present | 2 | “Linked list is empty” | “Linked list is empty” | pass |
|  | Attempt to do search and delete when list is empty | 4 | “Linked list is empty” | “Linked list is empty” | pass |
|  | Attempt to print list when empty | 3 | “Linked list is empty” | “Linked list is empty” | pass |

| Test# | Description of Test | Input Values | Expected Output | Actual Output | Status (Pass/Fail) |
| --- | --- | --- | --- | --- | --- |
|  | Enter non-numeric characters for menu option | “wgereg” | “Invalid input” | “Invalid input” | pass |
| 1. ­ | Delete node when the search string isn’t present | 1, “s1”, 1, “s2”, 1, “s3”, 4, “s4” | “Could not find the data” | “Could not find the data” | pass |
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## <Name of Feature 3>

| Test# | Description of Test | Input Values | Expected Output | Actual Output | Status (Pass/Fail) |
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## <Name of Feature 4>

| Test# | Description of Test | Input Values | Expected Output | Actual Output | Status (Pass/Fail) |
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