*Operational Specification Template*

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| **Student** | Erick Francisco González Martínez | **Program #** | 4 |

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| **Scenario Number** | **1** | **User Objective** | Calculate t distribution with dof and x | |
| **Scenario Objective** | | Test With Correct Data | | |
| **Source** | **Step** | **Action** | | **Comments** |
| Write ./a.out in console. | 1 |  | |  |
| Hit Enter | 2 |  | |  |
|  | 3 | InputReader handlesInput | |  |
| Reads x and dof | 4 |  | |  |
|  | 5 | Calls storeValues | |  |
|  | 6 | Initializes variables of the iterations | |  |
|  | 7 | Calls the iteration of Simpson | |  |
|  | 8 | While the difference is greater than the error, redo Step 7 | |  |
|  | 9 | Store the values of p2, x and Dof. | |  |
|  | 10 | Send the values to the output. | |  |
|  | 11 | The output displays it in the format previously established. | |  |

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| **Scenario Number** | **2** | **User Objective** | Calculate t distribution with dof and x | |
| **Scenario Objective** | | Test With Limit Data | | |
| **Source** | **Step** | **Action** | | **Comments** |
| Write ./a.out in console. | 1 |  | |  |
| Hit Enter | 2 |  | |  |
|  | 3 | InputReader handlesInput | |  |
| Reads x and dof | 4 |  | |  |
|  | 5 | Calls storeValues | |  |
|  | 6 | Initializes variables of the iterations | |  |
|  | 7 | Calls the iteration of Simpson | | 7.1 The iteration handles the limit numbers in the functions and continues.  7.2 Skips to Step 9 |
|  | 8 | While the difference is greater than the error, redo Step 7 | |  |
|  | 9 | Store the values of p2, x and Dof. | | 9.1 The values stored are 0 |
|  | 10 | Send the values to the output. | |  |
|  | 11 | The output displays it in the format previously established. | |  |

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| **Scenario Number** | **3** | **User Objective** | Calculate t distribution with dof and x | |
| **Scenario Objective** | | Test With Negative Numbers | | |
| **Source** | **Step** | **Action** | | **Comments** |
| Write ./a.out in console. | 1 |  | |  |
| Hit Enter | 2 |  | |  |
|  | 3 | InputReader handlesInput | |  |
| Reads x and dof | 4 |  | |  |
|  | 5 | Calls storeValues | |  |
|  | 6 | Initializes variables of the iterations | |  |
|  | 7 | Calls the iteration of Simpson | | 7.1 The iteration handles the negative number  7.2 Skips to Step 9 |
|  | 8 | While the difference is greater than the error, redo Step 7 | |  |
|  | 9 | Store the values of p2, x and Dof. | |  |
|  | 10 | Send the values to the output. | |  |
|  | 11 | The output displays it in the format previously established. | |  |