*Logic Specification Template*

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | David Alejandro Martínez Tristán | **Program #** | 6 |

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | avg() |

|  |  |
| --- | --- |
| **Parameters** | arr: vector<double> |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | avgPow() |

|  |  |
| --- | --- |
| **Parameters** | arr: vector<double> |
|  | exp: int |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | sum() |

|  |  |
| --- | --- |
| **Parameters** | arr: vector<double> |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

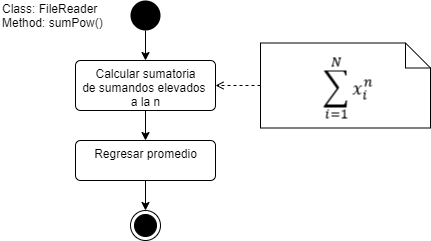
Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | sumPow() |

|  |  |
| --- | --- |
| **Parameters** | arr: vector<double> |
|  | exp: int |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

****

|  |  |
| --- | --- |
| **Class Name** | FileReader() |

|  |  |
| --- | --- |
| **Method Name** | sumProduct() |

|  |  |
| --- | --- |
| **Parameters** | arr1: vector<double> |
|  | arr2: vector<double> |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | isDouble() |

|  |  |
| --- | --- |
| **Parameters** | s: string |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateB1() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateB0() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateR() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateR2 |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateYk() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateSig() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

Diagrama

Descripción generada automáticamente

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateRan() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

Diagrama

Descripción generada automáticamente

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateLS() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

Diagrama

Descripción generada automáticamente

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | calculateLI() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

Diagrama

Descripción generada automáticamente

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | reset() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | openFile() |

|  |  |
| --- | --- |
| **Parameters** | fileName: string |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | readFile() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | closeFile() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama, Esquemático

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | FileReader |

|  |  |
| --- | --- |
| **Method Name** | standardDeviation() |

|  |  |
| --- | --- |
| **Parameters** |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | Printer |

|  |  |
| --- | --- |
| **Method Name** | printResults() |

|  |  |
| --- | --- |
| **Parameters** | n: int, xk: double, r: double, r2: double, b0: double, b1: double, yk: double, sig: double, |
|  | ran: double, LS: double, LI: double, errorLog: vector<int> |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**

|  |  |
| --- | --- |
| **Class Name** | Printer |

|  |  |
| --- | --- |
| **Method Name** | ceilDecimals() |

|  |  |
| --- | --- |
| **Parameters** | d: double |
|  |  |
|  |  |
|  |  |
|  |  |

**Include the image of the activity diagram created for the program:**

**Diagrama

Descripción generada automáticamente**