*Logic Specification Template*

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| **Student** | Patricia Palula Aguilar | **Program #** | 7 |

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| **Class Name** | main |

|  |  |
| --- | --- |
| **Method Name** | validarName |

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| **Parameters** | name variable a validar |

Diagram

Description automatically generated

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| **Class Name** | LeerArchivo |

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| **Method Name** | fillArrays |

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| **Parameters** | name string |
|  | xk variable x dada |
|  | arrX arreglo con x |
|  | arrY arreglo con y |

Diagram

Description automatically generated

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| **Class Name** | Regression |

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| **Method Name** | calcularSumatorias |

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| **Parameters** | n número de parejas de datos |
|  | wK w dada |
|  | xK x dada |
|  | yK y dada |
|  | vtrW vector con los datos de w |
|  | vtrX vector con los datos de x |
|  | vtrY vector con los datos de y |
|  | sumW sumatoria de w |
|  | sumX sumatoria de x |
|  | sumY sumatoria de y |
|  | sumW2 sumatoria de w^2 |
|  | sumX2 sumatoria de x^2 |
|  | sumY2 sumatoria de y^2 |
|  | sumWX sumatoria de w \* x |
|  | sumWY sumatoria de w \* y |
|  | sumWZ sumatoria de w \* z |
|  | sumXY sumatoria de x \* y |
|  | sumXZ sumatoria de x \* z |
|  | sumYZ sumatoria de y \* z |

Diagram

Description automatically generated

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| --- | --- |
| **Method Name** | calculos |

|  |  |
| --- | --- |
| **Parameters** | n número de parejas de datos |
|  | zK variable a calcular |
|  | wK w dada |
|  | xK x dada |
|  | yK y dada |
|  | b0 parámetro de regresión lineal |
|  | b1 parámetro de regresión lineal |
|  | b2 parámetro de regresión lineal |
|  | b3 parámetro de regresión lineal |

Diagram

Description automatically generated

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| --- | --- |
| **Class Name** | GaussJordan |

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| --- | --- |
| **Method Name** | gaussJordan |

|  |  |
| --- | --- |
| **Parameters** | mat matriz a utilizar |
|  | vtrResul vector con los resultados |

**Diagram

Description automatically generated**