*Functional Specification Template*

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| **Student** | Lucía Cantú-Miller | **Program #** | 6 |

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

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| Distribution |
| + f: double |
| - Distribution(x: double, dof: double): double  -Gamma(x: double): double |

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| Correlation |
| - calcCorrelation(double xySum, double xSum, double ySum, double xSumSqr, double ySumSqr, int n): double |

**image of the class diagram created for the program:**

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| Simpson |
| + x: double  + dof: double  + p: double  + pAux: double  + w: double  + num\_seg: int |
| - SimpsonRule(): double  - CalculateDiference (): double  - GetSimpson(x: double, dof: double): double |

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| Main |
| + p: double  + pt: double  +pAux: double  + x: double  + dof: double  +d: double  +dir: char |
| - Main(): int |

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| CalcHelper |
| - XYSum(double\* xValues, double\* yValues, double n): double  - Average(double\* values, double n): double  - Sum(double\* values, double n): double  - SumSqrd(double\* values, double n): double  - SumTwoNumbersSqrd(double\* values, double n, double average): double  - GetX(double p, double dof): double  - StandardDeviation(double\* xValues, double\* yValues, double bZero, double bOne, double n): double |

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| Regression |
| - BOne(double xySum, double xAvg, double yAvg, double xSumSqrd, int n): double  - BZero(double xAvg, double yAvg, double bOne): double |

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