*Logic Specification Template*

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| **Student** | Iker Arbulu Lozano | **Program #** | 6 |

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| **Class Name** | Correlacion |

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| **Design** | OST 1, FST1 |
| **References** |  |
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| **Method Name** | Print |

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| **Parameters** |  |
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| dSignificancia = calculaSignificancia() |
| dRango = calculaRango() |
| dLimSup = fyk + dRango |
| dLimInf = fyk - dRango |
| if dLimInf < 0 |
| dLimInf = 0 |
| System.out.println("sig = "+String.format("%.10f", dSignificancia)); |
| System.out.println("ran = "+String.format("%.5f", dRango)); |
| System.out.println("LS = "+String.format("%.5f", dLimSup)); |
| System.out.println("LI = "+String.format("%.5f", dLimInf)); |

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| **Class Name** | Correlacion |

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| **Design** | OST 1, FST1 |
| **References** |  |
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| **Method Name** | calculaSignificancia |

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| **Parameters** |  |
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| double dX = (Math.abs(fr)\*Math.sqrt(iNumParejas-2))/Math.sqrt(1-fr2) |
| ceCalcE = CalculadorE.new(dX,iNumParejas-2) |
| double dP = ceCalcE.getP() |
| return 1-2\*dP |

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| **Class Name** | Correlacion |

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| **Design** | OST 1, FST1 |
| **References** |  |
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| **Method Name** | calculaRango |

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| **Parameters** |  |
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| cxCalcX = CalculadorX.new(0.35,iNumParejas-2) |
| double dT = cxCalcX.getX() |
| double dDesvEstandar = calculaDesvEstandar() |
| double dSumatoria = 0 |
| for i = 0 to i < iNumParejas |
| dSumatoria = Math.pow(vdXi.get(i) – fPromX,2) |
| endFor |
| double dRangoDer = Math.sqrt(1+1.0/iNumParejas+(Math.pow(fxk – fPromX,2)/dSumatoria) |
| return dT \* dDesvEstandar \* dRangoDer |

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| **Class Name** | Correlacion |

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| **Design** | OST 1, FST1 |
| **References** |  |
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| **Method Name** | calculaDesvEstandar |

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| double dSumatoria = 0 |
| for i=0 to i<iNumParejas: |
| dSumatoria += Math.pow(vdYi.get(i) – fBeta0 – fBeta1\*vdXi.get(i),2) |
| return Math.sqrt((1/iNumParejas-2)\*dSumatoria) |

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| **Design** | OST 1, FST1 |
| **References** |  |
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| **Method Name** | pareja |

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| **Parameters** |  |
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| vdXi.addElement(x) |
| vdYi.addElement(y) |