State Specification Template

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| Student | | Hector Manuel Takami Flores | | | Date | | 7/04/18 |
| Program | | 7 | | | Program # | | 7 |
| Instructor | | Adriana Bojorquez | | | Language | | Java |
|  | | |  | | | | |
| **State Name** | | | | **Description** | | | |
| Stand by | | | | The system is waiting for data entry | | | |
| Operating … | | | | The system is working | | | |
|  | | | |  | | | |
| **Function/Parameter** | | | | **Description** | | | |
| Main() | | | | Receives the data and prints the result | | | |
| Calculary X(p,Error,dof) | | | | Uses integrate to get the result | | | |
| Integrate(x,dof) | | | | Uses t dristribution to make the integration | | | |
| f(x,dof) | | | | Uses gamma to return gamma result | | | |
| Gamma(x) | | | | Return 3 values depending the case | | | |
| tailArea | | | | Uses integration to get the result | | | |
| Multiple | | | | Return a sum of multiplications | | | |
| multiple | | | | Return a sum | | | |
| calR | | | | Uses Multiple and multiple to get the result | | | |
| B1 | | | | Uses Multiple and multiple to get the result | | | |
| B2 | | | | Return a result of a multiplication and a subtraction | | | |
| mean | | | | Return a mean of the data | | | |
| **States/Next States** | | | | **Transition Condition** | | **Action** | |
| Stand by | | | | **The user enter all the data needed** | | calcularX is called | |
| Operating calcularX | | | The functions needs to make integration | | Integrate is called | |
| Operating integrate | | | The function needs f | | f is called | |
| Operating f | | | The function needs gamma | | Gamma is called | |
| Operating gamma | | | A value is given | | Gamma returns a value | |
| Operating tailArea | | | Needs integrate | | Gamma is called | |
| calR | | | Needs Multiple and multiple | | Both are called | |
| Multiple | | | | a value is given | | Returns a sum | |
| multiple | | | A value is given | | Returns a sum | |
| Mean | | | A values is given | | Returns a value | |
| B1 | | | Needs Multiple and multiple | | Both are called | |
| B2 | | | A value is given | | Returns a value | |
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