**PSP2.1 Project Plan Summary**

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| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

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| **Summary** | | **Plan** | | |  | **Actual** | | |  | **To Date** | | |
| Size/Hour | | 537/190.57  = 2.8 | | |  | 366/267  = 1.4 | | |  | 165.6+1.4 = 167 | | |
| Planned Time | | 190.57min | | |  |  | | |  |  | | |
| Actual Time | |  | | |  | 267min | | |  | 469+267=736 | | |
| CPI (Cost-Performance Index) | |  | | |  |  | | |  | 2.1+(190.6/267)=  2.8 | | |
|  | |  | | |  |  | | |  | (Planned/Actual) | | |
| % Reuse | | 32.8% | | |  | 48.1% | | |  | 23.8 | | |
| % New Reusable | | 23.1% | | |  | 50% | | |  | 14.4 | | |
| Test Defects/KLOC or equivalent | | (1000\*6)/203  =29.56 | | |  | (1000\*3)/203  =14.78 | | |  | 31.25+14.78=  46.03 | | |
| Total Defects/KLOC or equivalent | | (1000\*6)/203  =29.56 | | |  | (1000\*2)/203  =9.85 | | |  | 31.25+9.85=  41.1 | | |
| Yield % | | (100\*1)/6=16.7% | | |  | (100\*2)/3=66.6% | | |  | 66.6% | | |
| ***% Appraisal COQ*** | | 100\*(1.3+1.7)/ 190.6 = 0.9 | | |  | 100\*(19+12)/ 267 = 11.61 | | |  | 11.61 | | |
| ***% Failure COQ*** | | 100\*(0+13.9)/  190.6 = 7.3 | | |  | 100\*(0+13.9)/  190.6 = 7.3 | | |  | 7.3 | | |
| ***COQ A/F Ratio*** | | (0.9+1.3)/  (0.9/7.3)=0.12 | | |  | (19+12)/  (19/12)=1.6 | | |  | 1.6 | | |
| ***PQI*** | |  | | |  |  | | |  |  | | |
| 9.7/119.5 = 0.1  (2\*1.3)/9.7 = 0.3  (2\*1.7)/119.5=0.03  6/(1+1/0.537)=1  =0.1\*0.3\*0.03\*1=0.0009 | |  | | |  |  | | |  |  | | |
| **Program Size** | | **Plan** | | |  | **Actual** | | |  | **To Date** | | |
| Base (B) | | 296 | | |  | 296 | | |  |  | | |
|  | | (Measured) | | |  | (Measured) | | |  |  | | |
| Deleted (D) | | 40 | | |  | 2 | | |  |  | | |
|  | | (Estimated) | | |  | (Counted) | | |  |  | | |
| Modified (M) | | 3 | | |  | 18 | | |  |  | | |
|  | | (Estimated) | | |  | (Counted) | | |  |  | | |
| Added (A) | 105 | | | |  | 72 | | |  |  | | |
|  | (A+M − M) | | | |  | (T − B + D − R) | | |  |  | | |
| Reused (R) | 176 | | | |  | 176 | | |  | 168+176=344 | | |
|  | (Estimated) | | | |  | (Counted) | | |  |  | | |
| Added and Modified (A+M) | 108 | | | |  | 90 | | |  | 848+90=938 | | |
|  | (Projected) | | | |  | (A + M) | | |  |  | | |
| Total Size (T) | 537 | | | |  | 366 | | |  | 1080+366=1446 | | |
|  | (A+M + B − M − D + R) | | | |  | (Measured) | | |  |  | | |
| Total New Reusable | 25 | | | |  | 45 | | |  | 90+45=135 | | |
|  |  | | | |  |  | | |  |  | | |
| Estimated Proxy Size (E) | 203 | | | |  |  | | |  |  | | |
|  | |  | | |  |  | | |  |  | | |
| ***Upper Prediction Interval (70%)*** | | 912.9 | | |  |  | | |  |  | | |
| ***Lower Prediction Interval (70%)*** | | 161.1 | | |  |  | | |  |  | | |
|  | |  |  |  | | |  |  | | |  |  |

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| **Time in Phase (min.)** | **Plan** |  | | **Actual** | | | | |  | | **To Date** | | |  | | **To Date %** | |
| Planning | 10.3 |  | | 11 | | | | |  | | 62+11=73 | | |  | | 5.1 | |
| Design | 9.7 |  | | 10 | | | | |  | | 59+10=69 | | |  | | 4.8 | |
| Design Review | 1.3 |  | | 19 | | | | |  | | 8+19=27 | | |  | | 1.9 | |
| Code | 119.5 |  | | 154 | | | | |  | | 726+154  =880 | | |  | | 61.8 | |
| Code Review | 1.7 |  | | 12 | | | | |  | | 11+12=23 | | |  | | 1.6 | |
| Compile | 0 |  | | 0 | | | | |  | | 0+0=0 | | |  | | 0 | |
| Test | 13.9 |  | | 19 | | | | |  | | 85+19=104 | | |  | | 7.3 | |
| Postmortem | 34.2 |  | | 42 | | | | |  | | 207+42  =249 | | |  | | 17.5 | |
| Total | 190.6 |  | | 267 | | | | |  | | 1425 | | |  | | 100 | |
| ***Total Time UPI (70%)*** | 324.02 |  | |  | | | | |  | |  | | |  | |  | |
| ***Total Time LPI (70%)*** | 57.18 |  | |  | | | | |  | |  | | |  | |  | |
|  |  | |  | |  | | |  | |  | | | | |  | |  |
| **Defects Injected** | **Plan** | |  | | **Actual** | | |  | | **To Date** | | | | |  | | **To Date %** |
| Planning | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Design | 1 | |  | | 0 | | |  | | 4+0=4 | | | | |  | | 18.2 |
| Design Review | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Code | 4 | |  | | 2 | | |  | | 12+2=14 | | | | |  | | 63.6 |
| Code Review | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Compile | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Test | 1 | |  | | 1 | | |  | | 3+1=4 | | | | |  | | 18.2 |
| Total Development | 6 | |  | | 3 | | |  | | 22 | | | | |  | | 100 |
|  |  | |  | |  | | |  | |  | | | | |  | |  |
| **Defects Removed** | **Plan** | |  | | **Actual** | | |  | | **To Date** | | | | |  | | **To Date %** |
| Planning | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Design | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Design Review | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Code | 5 | |  | | 1 | | |  | | 16++1=17 | | | | |  | | 80.9 |
| Code Review | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Compile | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | | 0 |
| Test | 1 | |  | | 1 | | |  | | 3+1=4 | | | | |  | | 19.1 |
| Total Development | 6 | |  | | 2 | | |  | | 21 | | | | |  | | 100 |
| After Development | 0 | |  | | 0 | | |  | | 0+0=0 | | | | |  | |  |
|  |  | | | | |  |  | | | | |  |  | | | | |
| **Defect Removal Efficiency** | **Plan** | | | | |  | **Actual** | | | | |  | **To Date** | | | | |
| Defects/Hour − Design Review | (60\*0)/1.3=0 | | | | |  | (60\*0)/19=0 | | | | |  | 0+0=0 | | | | |
| Defects/Hour − Code Review | (60\*0)/ 1.7=0 | | | | |  | (60\*0)/12=0 | | | | |  | 0+0=0 | | | | |
| Defects/Hour − Compile | 0 | | | | |  | 0 | | | | |  | 0+0=0 | | | | |
| Defects/Hour − Test | (60\*1)/13.9=4.3 | | | | |  | (60\*1)/19=3.2 | | | | |  | 0+3.2=3.2 | | | | |
| DRL (DLDR/UT) | 6/190.6=0.03 | | | | |  | 3/267=0.01 | | | | |  | 0+0.01=0.01 | | | | |
| DRL (Code Review/UT) | 0 | | | | |  | 0 | | | | |  | 0+0=0 | | | | |
| DRL (Compile/UT) | 0 | | | | |  | 0 | | | | |  | 0+0=0 | | | | |

**Test Report Template**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

|  |  |
| --- | --- |
| Test Name/Number | testDatos1/001 |
| Test Objective | Verificar que se esta hallando correctamente la X |
|  |  |
| Test Description | Comprobar que de acuerdo a los datos de entrada, se esta hallando |
|  | correctamente la X, de acuerdo con la función t distribution. |
|  |  |
| Test Conditions | Datos de entrada: (dof= 6, numSeg= 10, p= 0.2) |
|  |  |
| Expected Results | x = 0.55338 |
|  |  |
| Actual Results | x = 0.55338 |
|  |  |
| Test Name/Number | testDatos2/002 |
| Test Objective | Verificar que se esta hallando correctamente la X |
|  |  |
| Test Description | Comprobar que de acuerdo a los datos de entrada, se esta hallando |
|  | correctamente la X, de acuerdo con la función t distribution. |
|  |  |
| Test Conditions | Datos de entrada: (dof= 15, numSeg= 10, p= 0.45) |
|  |  |
| Expected Results | x = 1.75305 |
|  |  |
| Actual Results | x = 1.75304 |
|  |  |

|  |  |
| --- | --- |
| Test Name/Number | testDatos3/003 |
| Test Objective | Verificar que se esta hallando correctamente la X |
|  |  |
| Test Description | Comprobar que de acuerdo a los datos de entrada, se esta hallando |
|  | correctamente la X, de acuerdo con la función t distribution. |
|  |  |
| Test Conditions | Datos de entrada: (dof= 4, numSeg= 10, p= 0.495) |
|  |  |
| Expected Results | x = 4.60409 |
|  |  |
| Actual Results | x = 4.6035 |
|  |  |

**PSP2 Design Review Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

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| --- | --- | --- | --- | --- | --- |
|  | **Items** | **Respuesta** | | | |
| Si | No | N/A | Comentarios |
| Completitud | Verificar que el diseño cumpla con todos los requerimientos solicitados.  Verificar que todas las salidas necesarias sean producidas | X |  |  |  |
| Orden | Las clases se diseñaran, en orden de: definir clases, variables, constructores y metodos. | X |  |  |  |
| Uso funcional | Verificar que todos las clases, métodos, funciones y variables sean utilizadas y sean entendibles. | X |  |  |  |
| Nombres | Todos los nombres de las clases, métodos, funciones y variables son claros.  No deben ser abreviaturas. | X |  |  |  |
| Estándar | Asegurarse que el diseño de las clases correspondan al paradigma OO. | X |  |  |  |

**Code Review Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

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| --- | --- | --- | --- | --- | --- |
|  | **Items** | **Respuesta** | | | |
| Si | No | N/A | Comentarios |
| Completitud | Verificar que todo lo diseñado haya quedado plasmado en el código. | X |  |  |  |
| Imports | Tener todos los imports necesarios | X |  |  |  |
| Inicialización | Verificar inicialización de:  - Clases  - Metodos  - Variables | X |  |  |  |
| Llamados | Verificar llamados de metodos y constructores, tengan todos los parametros y tipos correspondientes | X |  |  |  |
| Parejas | Verificar que exista una pareja de: {}, [], () que sea correspondiente. | X |  |  |  |
| Operadores Lógicos | Verificar el uso apropiado de los operadores ==, =, ||, y demás. | X |  |  |  |
| Identación | Verificar que el código este identado correctamente. | X |  |  |  |
| Estándar | El código cumple con lo definido en la codificación estándar. | X |  |  |  |
| Javadoc | Verificar que todos las clases y metodos tengan Javadoc | X |  |  |  |

**PSP Process Improvement Proposal (PIP)**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

|  |
| --- |
| **Problem Description** |
| Briefly describe the problems that you encountered. |
|  |
| Ha sido complicado registrar la mayoría de errores encontrados, debido a que se está desarrollando |
| con un IDE. Y estas herramientas ayudan a detectar errores y prácticamente corregirlos inmediatamente. |
|  |
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| **Proposal Description** |
| Briefly describe the process improvements that you propose. |
|  |
| Apenas ocurra algún error escribirlo en **PSP Defect Recording Log,** sin embargo podría verse afectado |
| el tiempo real de desarrollo. |
|  |
| Antes de empezar a realizar cualquier cálculo o desarrollo, llenar los documentos de la fase de psp |
| actual con los históricos de las fases anteriores. |
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|  |
| **Other Notes and Comments** |
| Note any other comments or observations that describe your experiences or improvement ideas. |
|  |
| En esta fase sea hace evidente que se debe tomar un tiempo adecuado para realizar el diseño del programa |
| a desarrollar. |
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Size Estimating Template

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| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |
| Size Measure | LOC |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | | |  | Added | |
| Data.java |  | 71 | |  | 10 | |  | 1 | | |  | 0 | |
| HallarValores.java |  | 135 | |  | 20 | |  | 0 | | |  | 25 | |
| PrincipalFindingX.java |  | 90 | |  | 10 | |  | 2 | | |  | 10 | |
| AppTest.java |  | 0 | |  | 0 | |  | 0 | | |  | 70 | |
| Total | B | | 296 | D | | 40 | M | | 3 | **BA** | | | 105 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
| Data.java |  | 71 | |  | 2 | |  | 0 | |  | 0 | |
| HallarValores.java |  | 135 | |  | 0 | |  | 5 | |  | 45 | |
| PrincipalFindingX.java |  | 90 | |  | 0 | |  | 13 | |  | 0 | |
| AppTest.java |  | 0 | |  | 0 | |  | 0 | |  | 27 | |
| Total |  | | 296 |  | | 2 |  | | 18 |  | | 72 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
| HallarValores.java |  | Calc. |  | 2 |  | VS | |  | 25\* |  | 180 |  | 10 |
| AppTest.java |  | Test. |  | 6 |  | M | |  | 70 |  | 27 |  | 3 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
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| Total |  |  |  |  |  |  | PA | | 95 |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | Estimated |  | Actual |
| Reused Parts | |  | Size |  | Size |
| Data.java | |  | 61 |  | 69 |
| HallarValores.java | |  | 115 |  | 180 |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
| Total | R | | 176 |  |  |

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| |  |  |  | | --- | --- | --- | | **Program** | **LOC estimado** | **LOC REAL** | | program2 | 220 | 274 | | program3 | 180 | 252 | | program4 | 265 | 246 | | Program5 | 438 | 323 |  |  |  |  |  | | --- | --- | --- | --- | | β0 | β1 | R2 | R | | 199,7252 | 0,2692 | 0,7661 | 0.875 |  |  |  |  | | --- | --- | --- | | **Program** | **Tiempo estimado** | **Tiempo real** | | Program1 | 180 min | 171 min | | program2 | 300 min | 308 min | | program3 | 240 min | 210 min | | program4 | 180 min | 140 min | | program5 | 250.3 min | 329 min |  |  |  |  |  | | --- | --- | --- | --- | | β0 | β1 | R2 | R | | -93,6286 | 1,4137 | 0,7471 | 0.864 |   PROBE Calculation Worksheet (Added and Modified) |  | Size |  | Time |
| Added size (A): A = BA+PA |  | 200 |  |  |
| Estimated Proxy Size (E): E = BA+PA+M |  | 203 |  |  |
| PROBE estimating basis used: (A, B, C, or D) |  | A |  | A |
| Correlation: (R2) |  | 0.7661 |  | 0.7471 |
| Regression Parameters: β0 Size and Time |  | 199.7 |  | -93.63 |
| Regression Parameters: β1 Size and Time |  | 0.27 |  | 1.4 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E |  | 254.51 |  |  |
| Estimated Total Size (T): T = P + B - D - M + R |  | 683.51 |  |  |
| Estimated Total New Reusable (NR): sum of \* items |  | 25 |  |  |
| Estimated Total Development Time: Time = β0time + β1time\*E |  |  |  | 190.57min |
| Prediction Range: Range |  | 178.157 |  | 133.399 |
| Upper Prediction Interval: UPI = P + Range |  | 432.667 |  | 323.969 |
| Lower Prediction Interval: LPI = P - Range |  | 76.353 |  | 57.171 |
| Prediction Interval Percent: |  | 70% |  | 70% |

**Operational Specification Template**

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | José Javier Virviescas Toledo | **Date** | 28/02/2015 |
| **Program** | Program6 | **Program #** | 6 |
| **Instructor** | Luis Daniel Benavides Navarro | **Language** | JAVA |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Scenario Number** | **1** | **User Objective** | Visualizar resultado | |
| **Scenario Objective** | | Ingreso a la aplicación para ver el resultado del programa que halla la X. | | |
| **Source** | **Step** | **Action** | | **Comments** |
| Usuario | 1 | Digitar url con la dirección de heroku del programa 6 | |  |
| Sistema | 2 | Mostrar resultado en pantalla. | |  |

**Functional Specification Template**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Student** | | | José Javier Virviescas Toledo | | **Date** | 28/02/2015 |
| **Program** | | | Program6 | | **Program #** | 6 |
| **Instructor** | | | Luis Daniel Benavides Navarro | | **Language** | JAVA |
|  | | | | | | |
| **Class Name** | | PrincipalFindingX.java | | | | |
| **Parent Class** | | HttpServlet | | | | |
|  | | | | | | |
| **Items** | | | | | | |
|  | **Declaration** | | | **Description** | | |
|  | protected void doGet(HttpServletRequest req, HttpServletResponse resp)throws ServletException, IOException | | | Implementación método doGet del servlet. | | |
|  | private void resultado(HttpServletRequest req, HttpServletResponse resp)throws ServletException, IOException | | | Mostrar el resultado en pantalla del cálculo de la X | | |
|  | public static void main(String[] args) throws Exception{ | | | Método main del proyecto. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Class Name** | | HallarValores.java | |
| **Parent Class** | |  | |
|  | | | |
| **Attributes** | | | |
|  | **Declaration** | | **Description** |
|  | private static final double E = 0.00001 | | Constante con el valor del Error aceptable |
|  | public static final double P1 = 0.20 | | Constante con el valor esperado para la prueba 1 |
|  | public static final double P2 = 0.45 | | Constante con el valor esperado para la prueba 2 |
|  | public static final double P3 = 0.495 | | Constante con el valor esperado para la prueba 3 |
|  | | | |
| **Items** | | | |
|  | **Declaration** | | **Description** |
|  | public static Data datos1() | | Retorna datos de entrada con los que se evalua la regla de Simpson |
|  | public static Data datos2() | | Retorna datos de entrada con los que se evalua la regla de Simpson |
|  | public static Data datos3() | | Retorna datos de entrada con los que se evalua la regla de Simpson |
|  | public Data hallarX(Data data, Double resultadoEsperado) | | Método para hallar el valor de X |
|  | public Data valorConErrorAceptable(Data data) | | Realizar cuantas veces sea necesario el método reglaSimpson hasta que el resultado cumpla con el error aceptable |
|  | public Data reglaSimpson(Data data) | | Método que implemente la regla de Simpson |
|  | public ArrayList<Double> encontrarValoresSumatoria(int numSeg, double x) | | Retornar una lista con los segmentos que utilizara la regla de Simpson |
|  | public double tDistribution(double dof, double x) | | Método que implementa la función t Distribution |
|  | public double gammaFunction(double valorX) | | Método que implementa la función gamma para números enteros |
|  | public double gammaFunctionFraccionario(double numerador, double denominador) | | Método que implementa la función gamma par fraccionarios |

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| --- | --- | --- | --- |
| **Class Name** | | Data.java | |
| **Parent Class** | |  | |
|  | | | |
| **Attributes** | | | |
|  | **Declaration** | | **Description** |
|  | private double x | | Variable que almacena el valor de x |
|  | private int dof | | Variable que almacena el valor de dof |
|  | private int numSeg | | Variable que almacena el valor de numSeg |
|  | private double p | | Variable que almacena el valor de p |
|  | | | |
| **Items** | | | |
|  | **Declaration** | | **Description** |
|  | public Data(int dof, int numSeg) | | Método constructor del objeto Data |
|  | public double getX() | | Método para traer el valor de x |
|  | public double getDof() | | Método para traer el valor de dof |
|  | public int getNumSeg() | | Método para traer el valor de numSeg |
|  | public double getP() | | Método para traer el valor de p |
|  | public void setX(double x) | | Método para cambiar el valor de x |
|  | public void setDof(int dof) | | Método para cambiar el valor de dof |
|  | public void setNumSeg(int numSeg) | | Método para cambiar el valor de numSeg |
|  | public void setP(double p) | | Método para cambiar el valor de p |

**PSP Time Recording Log**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

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| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta**  **Time** | **Comments** |
| FindingX | Planing | 28/02/2015  10:19 am |  | 28/02/2015  10:30 am | 11 |  |
|  | Design | 28/02//2015  05:08 pm | 9 | 28/02/2015  05:27 pm | 10 |  |
|  | Design Review | 28/02/2015  05:28 pm |  | 28/02/2015  05:47 pm | 19 |  |
|  | Code | 28/02/2015  05:48 pm | 32 | 28/02/2015  07:30 pm | 102 |  |
|  | Code | 01/03/2015  07:10 am |  | 01/03/2015  08:02 am | 52 |  |
|  | Code Review | 01/03/2015  08:03 am |  | 01/03/2015  08:15 am | 12 |  |
|  | Test | 01/03/2015  08:45 am |  | 01/03/2015  09:04 am | 19 |  |
|  | Postmortem | 01/03/2015  09:05 am | 6 | 01/03/2015  09:47 am | 42 |  |
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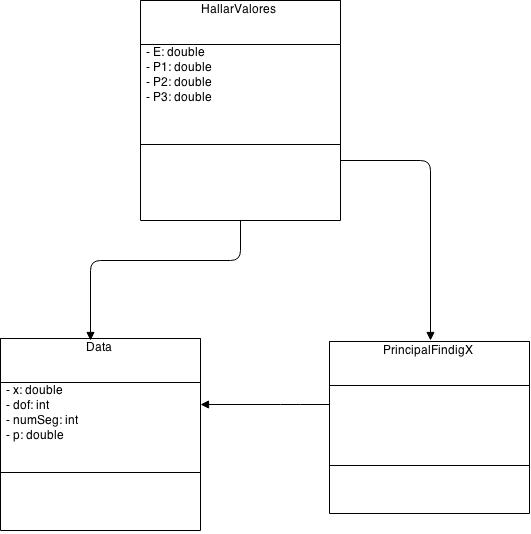
**PSP Defect Recording Log**

|  |  |
| --- | --- |
| Defect Types |  |
| 10 Documentation | 60 Checking |
| 20 Syntax | 70 Data |
| 30 Build, Package | 80 Function |
| 40 Assignment | 90 System |
| 50 Interface | 100 Environment |

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 28/02/2015 |
| Program | Program6 | Program # | 6 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

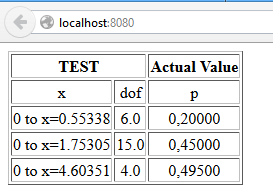
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| FindingX |  | | 28/02/2015 |  | 1 |  | 80 |  | Code |  | Code |  | 5 |  |  |
| Description: | | | Error de precisión que no permitia hallar X | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
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| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| FindingX |  | | 01/03/2015 |  | 2 |  | 80 |  | Code |  | N/A |  |  |  |  |
| Description: | | | No da el resultado exactamente al esperado. | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
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| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| FindingX |  | | 01/03/2015 |  | 3 |  | 80 |  | Test |  | Test |  | 1 |  |  |
| Description: | | | No se estaba comparando los parametros correctamente. | | | | | | | | | | | | | |
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**Formato de Metáfora / Arquitectura**

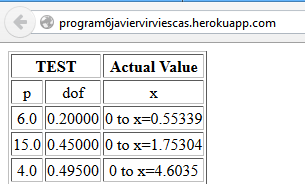
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**Test Results**

Prueba local:



Prueba Heroku:



Pruebas Unitarias:

