PSP Time Recording Log

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| --- | --- | --- | --- |
| Student | Gabriel Castillo | Date | 28 Febrero |
| Program | PSP 21 | Program # | 6 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta**  **Time** | **Comments** |
| PSP21 | Analisis | 8:12 a. m. 28/02/2015 | 0 | 8:16 a. m. 28/02/2015 | 4 | Analisis del documento |
| PSP21 | Analisis | 8:20 a. m. 28/02/2015 | 26 | 9:34 a. m. 28/02/2015 | 48 | Analisis del documento |
| PSP21 | Diseño | 8:16 a. m. 28/02/2015 | 0 | 8:20 a. m. 28/02/2015 | 4 | Diseño del programa |
| PSP21 | Programación | 9:34 a. m. 28/02/2015 | 2 | 10:25 a. m. 28/02/2015 | 49 | Desarrollo |
| PSP21 | Pruebas | 10:26 a. m. 28/02/2015 | 10 | 11:34 a. m. 28/02/2015 | 58 | Pruebas y despliegue |
| PSP21 | Postmortem | 11:35 a. m. 28/02/2015 | 5 | 12:27 p. m. 28/02/2015 | 47 | Postmortem y documento |
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PSP2.1 Project Plan Summary

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| --- | --- | --- | --- |
| Student | Gabriel Castillo Prada | Date | 28 de Febrero |
| Program | PSP 2.1 | Program # | 6 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Summary** | | **Plan** | | |  | **Actual** | | |  | **To Date** | | |
| Size/Hour | | 1.49 | | |  | 1.14 | | |  | 3.5 | | |
| Planned Time | | 83 | | |  |  | | |  | 213 | | |
| Actual Time | |  | | |  | 107 | | |  | 188 | | |
| CPI (Cost-Performance Index) | |  | | |  |  | | |  | 1.13 | | |
|  | |  | | |  |  | | |  | (Planned/Actual) | | |
| % Reuse | | 5 | | |  | 7 | | |  | 10 | | |
| % New Reusable | | 1 | | |  | 1 | | |  | 7 | | |
| Test Defects/KLOC or equivalent | | 1 | | |  | 1 | | |  | 3 | | |
| Total Defects/KLOC or equivalent | | 1 | | |  | 2 | | |  | 4 | | |
| Yield % | | 100 | | |  | 100 | | |  | 100 | | |
| ***% Appraisal COQ*** | | 20 | | |  | 20 | | |  | 20 | | |
| ***% Failure COQ*** | | 20 | | |  | 20 | | |  | 20 | | |
| ***COQ A/F Ratio*** | |  | | |  |  | | |  |  | | |
| ***PQI*** | |  | | |  |  | | |  |  | | |
|  | |  | | |  |  | | |  |  | | |
| **Program Size** | | **Plan** | | |  | **Actual** | | |  | **To Date** | | |
| Base (B) | | 17 | | |  | 17 | | |  |  | | |
|  | | (Measured) | | |  | (Measured) | | |  |  | | |
| Deleted (D) | | 0 | | |  | 0 | | |  |  | | |
|  | | (Estimated) | | |  | (Counted) | | |  |  | | |
| Modified (M) | | 0 | | |  | 0 | | |  |  | | |
|  | | (Estimated) | | |  | (Counted) | | |  |  | | |
| Added (A) | 100 | | | |  | 97 | | |  |  | | |
|  | (A+M − M) | | | |  | (T − B + D − R) | | |  |  | | |
| Reused (R) | 25 | | | |  | 25 | | |  | 172 | | |
|  | (Estimated) | | | |  | (Counted) | | |  |  | | |
| Added and Modified (A+M) | 125 | | | |  | 97 | | |  | 672 | | |
|  | (Projected) | | | |  | (A + M) | | |  |  | | |
| Total Size (T) | 150 | | | |  | 123 | | |  | 865 | | |
|  | (A+M + B − M − D + R) | | | |  | (Measured) | | |  |  | | |
| Total New Reusable | 25 | | | |  | 25 | | |  | 54 | | |
|  |  | | | |  |  | | |  |  | | |
| Estimated Proxy Size (E) | 175 | | | |  |  | | |  |  | | |
|  | |  | | |  |  | | |  |  | | |
| ***Upper Prediction Interval (70%)*** | | 15 | | |  |  | | |  |  | | |
| ***Lower Prediction Interval (70%)*** | | 10 | | |  |  | | |  |  | | |
|  | |  |  |  | | |  |  | | |  |  |

**(continued)**

**PSP2.1 Project Plan Summary (continued)**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo | Program # | 6 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Time in Phase (min.)** | **Plan** |  | | **Actual** | | | | |  | | **To Date** | | |  | | **To Date %** | |
| Planning | 34 |  | | 52 | | | | |  | | 339 | | |  | | 18 | |
| Design | 4 |  | | 4 | | | | |  | | 49 | | |  | | 2.8 | |
| Design Review | 1 |  | | 1 | | | | |  | | 2 | | |  | | 0.1 | |
| Code | 83 |  | | 49 | | | | |  | | 723 | | |  | | 39 | |
| Code Review | 1 |  | | 1 | | | | |  | | 2 | | |  | | 0.1 | |
| Compile | 0 |  | | 0 | | | | |  | | 0 | | |  | | 0 | |
| Test | 31 |  | | 58 | | | | |  | | 325 | | |  | | 18 | |
| Postmortem | 42 |  | | 47 | | | | |  | | 376 | | |  | | 21 | |
| Total | 200 |  | | 212 | | | | |  | | 1814 | | |  | | 100 | |
| ***Total Time UPI (70%)*** | 140 |  | |  | | | | |  | |  | | |  | |  | |
| ***Total Time LPI (70%)*** | 140 |  | |  | | | | |  | |  | | |  | |  | |
|  |  | |  | |  | | |  | |  | | | | |  | |  |
| **Defects Injected** | **Plan** | |  | | **Actual** | | |  | | **To Date** | | | | |  | | **To Date %** |
| Planning | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Design | 1 | |  | | 1 | | |  | | 10 | | | | |  | | 46 |
| Design Review | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Code | 2 | |  | | 2 | | |  | | 12 | | | | |  | | 54 |
| Code Review | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Compile | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Test | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Total Development | 3 | |  | | 3 | | |  | | 22 | | | | |  | | 100 |
|  |  | |  | |  | | |  | |  | | | | |  | |  |
| **Defects Removed** | **Plan** | |  | | **Actual** | | |  | | **To Date** | | | | |  | | **To Date %** |
| Planning | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Design | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Design Review | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Code | 1 | |  | | 1 | | |  | | 10 | | | | |  | | 46 |
| Code Review | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Compile | 0 | |  | | 0 | | |  | | 0 | | | | |  | | 0 |
| Test | 2 | |  | | 2 | | |  | | 12 | | | | |  | | 54 |
| Total Development | 3 | |  | | 3 | | |  | | 22 | | | | |  | | 100 |
| After Development |  | |  | |  | | |  | |  | | | | |  | |  |
|  |  | | | | |  |  | | | | |  |  | | | | |
| **Defect Removal Efficiency** | **Plan** | | | | |  | **Actual** | | | | |  | **To Date** | | | | |
| Defects/Hour − Design Review | 0 | | | | |  | 0 | | | | |  | 1 | | | | |
| Defects/Hour − Code Review | 0 | | | | |  | 0 | | | | |  | 0 | | | | |
| Defects/Hour − Compile | 0 | | | | |  | 0 | | | | |  | 0 | | | | |
| Defects/Hour − Test | 1 | | | | |  | 2 | | | | |  | 5 | | | | |
| DRL (DLDR/UT) |  | | | | |  |  | | | | |  |  | | | | |
| DRL (Code Review/UT) |  | | | | |  |  | | | | |  |  | | | | |
| DRL (Compile/UT) |  | | | | |  |  | | | | |  |  | | | | |

**Design Review Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo Prada | Date | 28 Febrero |
| Program | PSP 2.1 | Program # | 6 |
| Instructor |  | Language | Java |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | 1 | 2 | 3 | 4 | 5 |
| Completitud | * Validar que todo lo solicitado este en el programa * Validar que las salidas que se piden esten programadas * Validar que estén las entradas solciitadas | X | x | x | x | x |
| Ambientes | * Validar que se muestren en los diferentes ambientes (Web, Consola) | X | x | x | x | x |
| Logica y Objetos | * Validar que la reutilización de código * Validar que los objetos diseñados cumplan con el nivel de acceso determinado * Validar que cada clase tenga métodos que deban corresponder a la misma | X | x | x | x | x |
| Casos especiales | * Validar condiciones poco posibles | X | x | x | x | x |
| Consideraciones de sistema | * Validar que no haya un uso inapropiado de los recursos del sistema * Validar la seguridad por medio de los tipos de datos | X | x | x | x | x |
| Names | * Validar que los nombres de clases y metodos sean apropiados con la funcionalidad que se espera de ellos | X | x | x | x | x |
| Patrones | Validar cuando sea possible, usar algún patrón | X | x | x | x | x |

1. Vista Web
2. Vista Consola
3. Controlador Web
4. Controlador Consola
5. Metodo Probe

**Code Review Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo Prada | Date | 28 febrero |
| Program | PSP2.1 | Program # | 6 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- |
|  |  | 1 | 2 | 3 | 4 | 5 |
| Completitud | Validar que el codigo cumpla toda la funcionalidad | X | x | x | x | x |
| Imports | Validar que los includes y paquetes se encuentren | X | x | x | x | x |
| Initialization | * Validar que todos los objetos puedan llegar inicializados * Controlar posibles NUllPointerException * No retornar valores nulos | X | x | x | x | x |
| Nombres | * Validar que los nombres sean consistentes con su funcionalidad * Validar que las varibales comiencen en minúscula * Validar que los métodos comiencen en mayuscula | X | x | x | x | x |
| Salidas | * Validar que las salidas sean amigables * Validar la ortografía de las salidas * Validar que las salidas muestren la información requerida | X | x | x | x | x |
| Exception | * Validar las excepciones que sean especificas * Controlar las excecpiones en la mayor parte de momentos | X | x | x | x | x |

1. Vista Web
2. Vista Consola
3. Controlador Web
4. Controlador Consola
5. Metodo Probe

Size Estimating Template

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo Prada | Date | 28 febrero |
| Program | PSP 2.1 | Program # | 6 |
| Instructor |  | Language | Java |
| Size Measure |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | | |  | Added | |
| MetodosPROBE |  | 17 | |  |  | |  |  | | |  | 25 | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
| Total | B | | 17 | D | | 0 | M | | 0 | **BA** | | | 25 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
| MetodosPROBE |  | 17 | |  |  | |  |  | |  | 24 | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
| Total |  | | 17 |  | |  |  | |  |  | | 24 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
| VistaWeb |  | Vista |  | 1 |  | M | |  | 20 |  | 9 |  | 1 |
| VistaConsola |  | Vista |  | 1 |  | M | |  | 10 |  | 8 |  | 1 |
| ControladorWeb |  | Contro |  | 2 |  | M | |  | 15 |  | 20 |  | 2 |
| ControladorConsola |  | Contro |  | 1 |  | M | |  | 10 |  | 7 |  | 1 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
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| Total |  |  |  |  |  |  | PA | | 65 |  | 44 |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | Estimated |  | Actual |
| Reused Parts | |  | Size |  | Size |
| CalculosMatematicos | |  | 29 |  | 24 |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
| Total | R | | 29 |  | 24 |

**(continued)**

Size Estimating Template (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo | Program | PSP2.1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PROBE Calculation Worksheet (Added and Modified) |  | Size |  | Time |
| Added size (A): A = BA+PA |  | 90 |  |  |
| Estimated Proxy Size (E): E = BA+PA+M |  | 90 |  |  |
| PROBE estimating basis used: (A, B, C, or D) |  | C |  | C |
| Correlation: (R2) |  | 0.14 |  | 0.571 |
| Regression Parameters: β0 Size and Time |  | 0 |  | 0 |
| Regression Parameters: β1 Size and Time |  | 0.704 |  | 1.17 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E |  | 63.36 |  |  |
| Estimated Total Size (T): T = P + B - D - M + R |  | 109 |  |  |
| Estimated Total New Reusable (NR): sum of \* items |  | 0 |  |  |
| Estimated Total Development Time: Time = β0time + β1time\*E |  |  |  | 105.3 |
| Prediction Range: Range |  |  |  |  |
| Upper Prediction Interval: UPI = P + Range |  |  |  |  |
| Lower Prediction Interval: LPI = P - Range |  |  |  |  |
| Prediction Interval Percent: |  |  |  |  |

**Java Coding Standard**

|  |  |
| --- | --- |
| Purpose | Guia de codificación para Java |
| Program Headers | Comentario por defecto de Netbeans |
| Header Format | /\*  \* To change this license header, choose License Headers in Project Properties.  \* To change this template file, choose Tools | Templates  \* and open the template in the editor.  \*/ |
| Listing Contents | No tiene |
| Contents  Example |  |
| Reuse Instructions | * Comentario de como se deben enviar los parámetros |
| Reuse Example | /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  \* Reuse instructions \*  \* int PrintLine(char \*line\_of\_character) \*  \* Purpose: to print string, ‘line\_of\_character’, on one print line \*  \* Limitations: the line length must not exceed LINE\_LENGTH \*  \* Return 0 if printer not ready to print, else 1 \*  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
| Identifiers | Las variables deben contener nombres que sean muy descriptivos, al igual que los métodos |
| Identifier Example | Int numeroProgramas;  List<Programa> listadoProgramas; |

|  |  |
| --- | --- |
| Comments | * Comentarios muy descriptivos al igual que las variables * Intentar documentar todas las líneas que no sean lo suficientemente obvias. * Intentar documentar if en todos los casos |
| Good Comment | //Solo las lineas tipo 1 y tipo 2 deben ser validas para contar en el programa porque son metodos y línea normal  if(tipoLinea == 1 || tipoLinea == 2) |
| Bad Comment | //tipos de línea 1 y 2  if(tipoLinea == 1 || tipoLinea == 2) |
| Major Sections | No contiene |
| Example |  |
| Blank Spaces | * Agrupar máximo 3 líneas de código sin dejar renglón por medio * Dejar corchetes debajo de los metodos, condiciones o ciclos. No en la misma linea |
| Indenting | * Identar siempre que haya un salto de línea * Si existe un IF con una sola línea realizar el salto de línea e identar |
| Indenting  Example | Public void Prueba(bool esProgramaValido)  {  If(esProgramaValido)  System.out.println(“valido”);  } |
| Capitalization | * En mayuscula van todas las constantes * Metodos y Clases comienzan con mayúscula * Variables locales y propiedades comienzan con minúscula * Parametros en metodos comienzan en minúscula * No se usa underscore en ningún caso a excepcion en los separadores de palabras de las constantes |
| Capitalization Example | Public class MostrarContenidos  {  Private final static bool MOSTRAR\_EN\_MAYUSCULAS = true;  Public void MostrarMensaje(string mensaje)  {  If(MOSTRAR\_EN\_MAYUSCULAS)  This.MostrarEnMayusculas(mensaje)  Else  This.MostrarEnMinusculas(mensaje)  }  } |
|  |  |

Test Report Template

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo | Date | Febero 28 |
| Program | PSP2.1 | Program # | 6 |
| Instructor |  | Language | Java |

|  |  |
| --- | --- |
| Test Name/Number | 1 / Misma prueba datos diferentes |
| Test Objective | Probar que los caculos de tamaños de programas sean validos |
|  |  |
| Test Description | Se ingresaran dos grupos de datos de números, estos datos contienen la información correspondiente al documento entregado en psp2.1 |
|  |  |
| Test Conditions | Son 3 grupos de datos. Cada grupo contiene P y dof y debe arrojar el resultado encontrado en la tabla. |
|  |  |
|  |  |
|  |  |
|  |  |
| Expected Results | Los resultados esperados corresponden al valor encontrado en la tabla que suministra el ejercicio. |
|  |  |
|  |  |
|  |  |
| Actual Results | Los resultados arrojados fueron satisfactorios, estos se pueden consultar en la siguiente URL. http://psp21-gabriel.herokuapp.com/ |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# Prueba

--->X:0.55340576171875  
--->DOF:6.0  
--->Resultado (p):0.2  
------------------------------------------------  
------------------------------------------------

**Prueba**

--->X:1.7530517578125  
--->DOF:15.0  
--->Resultado (p):0.45  
------------------------------------------------  
------------------------------------------------

**Prueba**

--->X:4.609375  
--->DOF:4.0  
--->Resultado (p):0.495  
------------------------------------------------  
------------------------------------------------

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 | | Gabriel Castillo | | | | | | | | | | | Date | | | Febrero 28 | | | |
| Program | | PSP 2.1 | | | | | | | | | | | Program # | | | 6 | | | |
| Instructor | |  | | | | | | | | | | | Language | | | Java | | | |
| Project |  | | | Date |  | Number |  | Type |  | Inject |  | Remove | |  | Fix Time | |  | Fix Ref. |
| PSP 2.1 |  | | | 28 Feb |  | 1 |  | 100 |  | Design. |  | Code | |  | 1 | |  | 0 |
| Description: | | | | No era necesario crear dos métodos para hacer reutilización de código | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 2.1 |  | | 28 Feb |  | 2 |  | 60 |  | Code. |  | Test |  | 3 |  |  |
| Description: | | | Errro en la condición de salida del ciclo en nuevo metodo | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP2.1 |  | | 28 Feb |  | 3 |  | 60 |  | Code. |  | Test |  | 10 |  |  |
| Description: | | | Error calculando P en el rango de error | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |

PSP Process Improvement Proposal (PIP)

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| Student | Gabriel Alberto Castillo PRada | Date | Feb 28 2015 |
| Program |  | Program # | 6 |
| Instructor |  | Language | Java |

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| Problem Description |
| Briefly describe the problems that you encountered. |
| Siguen existiendo problemas para calcular el método PROBE ya que los cálculos no me dan exactamente. |
| Además la mayor cantidad invertida de tiempo es entendiendo las formulas y terminando el documento. |
| Tuve problemas en el calculo del P ya que existía un error del desarrollo anterior |
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| Proposal Description |
| Briefly describe the process improvements that you propose. |
| Necesito leer un poco más sobre el método y preguntarle al profesor. |
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| Other Notes and Comments |
| Note any other comments or observations that describe your experiences or improvement ideas. |
| Mejoré bastante la estimación de las líneas de código, estuvieron muy acertadas, no así el tiempo ya que sigo teniendo varios desfases. |
| Mejoré bastante en el diseño ya que es la primera vez que no cometo errores en esta fase. |
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