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 | Jagmeet Singh Gurm | Date | 9/19/2014 |
| Program | LinkedList |  |  |
| Instructor | Brent Auernheimer | Language | C++ |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| LinkedList |  | | 9/19/14 |  | 001 |  | Data  (70) |  | Design |  | Code |  | 1min |  |  |
| Description: | | | Forgot to include a counter that will keep count of the number of elements in the linked list. | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| LinkedList |  | | 9/19/14 |  | 002 |  | Data  (70) |  | Design |  | Code |  | 2 min |  |  |
| Description: | | | Forgot to have two variables for storing the total and the average of the N real numbers. | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| LinkedList |  | | 9/19/14 |  | 003 |  | Assignment(40) |  | Code |  | Compile |  | 2 min |  |  |
| Description: | | | The assignment a=a+(t->data-avg)^2 had to be changed to a=a+(t->data-avg)\*(t->data-avg) because the left operand has type float. . | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| LinkedList |  | | 9/19/14 |  | 004 |  | Function(80) |  | Code |  | Test |  | 10 min |  |  |
| Description: | | | There was a logical error in mean function. After the first value each value was getting added 2 times instead of one. So, the logic had to be changed from total=total+t->data+t->next->data to total=total+t->data. Inserted breakpoint to find the exact logical error. | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| LinkedList |  | | 9/20/14 |  | 005 |  | Documentation(10) |  | Code |  | Postmortem |  | 30min |  |  |
| Description: | | | Added few more comments and expanded some earlier comments | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Description: | | |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Description: | | |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Description: | | |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |

PSP Defect Recording Log Instructions

|  |  |
| --- | --- |
| Purpose | * Use this form to hold data on the defects that you find and correct. * These data are used to complete the Project Plan Summary form. |
| General | * Record each defect separately and completely. * If you need additional space, use another copy of the form. |
| Header | * Enter your name and the date. * Enter the program name. * Enter the instructor’s name and the programming language you are using. |
| Project | * Give each program a different name or number. |
| Date | Enter the date on which you found the defect. |
| Number | * Enter the defect number. * For each program or module, use a sequential number starting with 1 (or 001, etc.). |
| Type | * Enter the defect type from the defect type list summarized in the top left corner of the form. * Use your best judgment in selecting which type applies. |
| Inject | * Enter the phase when this defect was injected. * Use your best judgment. |
| Remove | Enter the phase during which you fixed the defect. (This will generally be the phase when you found the defect.) |
| Fix Time | * Enter the time that you took to find and fix the defect. * This time can be determined by stopwatch or by judgment. |
| Fix Ref. | * If you or someone else injected this defect while fixing another defect, record the number of the improperly fixed defect. * If you cannot identify the defect number, enter an X. |
| Description | Write a succinct description of the defect that is clear enough to later remind you about the error and help you to remember why you made it. |

PSP Defect Type Standard

|  |  |  |
| --- | --- | --- |
| **Type Number** | **Type Name** | **Description** |
| 10 | Documentation | Comments, messages |
| 20 | Syntax | Spelling, punctuation, typos, instruction formats |
| 30 | Build, Package | Change management, library, version control |
| 40 | Assignment | Declaration, duplicate names, scope, limits |
| 50 | Interface | Procedure calls and references, I/O, user formats |
| 60 | Checking | Error messages, inadequate checks |
| 70 | Data | Structure, content |
| 80 | Function | Logic, pointers, loops, recursion, computation, function defects |
| 90 | System | Configuration, timing, memory |
| 100 | Environment | Design, compile, test, or other support system problems |