Assignment Kit # 4

Process version: PSP1 Lecture Number: 4

Assignment:

	Text	Read the last half of Chapter 5.		
	Program 4A	Use PSP1 to write program 4A to calculate the linear regression		
		parameters from a linked list.		

Before writing program 4A, read the process and exercise specifications in Appendices C and D.

Assignment Kit 4 Contents	Instructions	Order to submit assignment
PSP1 Process Scripts		PSP1 Project Plan Summary
C30 PSP1 Script	n/a	Test Report
C31 PSP1 Planning Script	n/a	PIP form, including lessons
		learned
C32 PSP1 Development Script	n/a	Size Estimating Template
C33 PSP1 Postmortem Script	n/a	Time Recording Log
C36 PROBE Estimating Script	n/a	Defect Recording Log
Forms, Templates, and Standards		Source program listing
C34 PSP1 Project Plan Summary	C35	Other requested materials
C37 Test Report Template	C38	
C39 Size Estimating Template	C40	
C27 Process Improvement Proposal	C28	
C29 Coding Standard	n/a	
C16 Time Recording Log	C17	
C18 Defect Recording Log	C19	
C20 Defect Type Standard	n/a	

Table C34 PSP1 Project Plan Summary

Student			Date	
Program			Program #	-
Instructor			Language	
Summary LOC/Hour	Plan	A	Actual	
Program Size (LOC): Base(B)	Plan	Actual		To Date
Deleted (D)	(Measured)	(Measured)		
Defeted (D)	(Estimated)	(Counted)		
Modified (M)				
Added (A)	(Estimated)	(Counted)		
Reused (R)	(N-M)	(T-B+D-R)		
Reuseu (K)	(Estimated)	(Counted)		
Total New & Changed (N)				
Total LOC (T)	(Estimated)		(A+M)	
Total New Reused	(N+B-M-D+R)	(Measured)		
Time in Phase (min.)	Plan	Actual	To Date	To Date %
Planning				
Design				
Code				
Compile				
Test				
Postmortem				
Total				
Defects Injected		Actual	To Date	To Date %
Planning				
Design	_			
Code	_			
Compile	_			
Test	_			
Total Development	-			
Defects Removed		Actual	To Date	To Date %
Planning				
Design	_			
Code	_			
Compile	_			
Test	-			
Total Development	_			
After Development	_			<u> </u>

Table C37 Test Report Template

Student	Date
Instructor	Program #
Test Name/Number	
Test Objective	
Test Description	
Test Conditions	
Expected Results	
Actual Results	
Test Name/Number	
Test Objective	
Test Description	
1	
Test Conditions	
Expected Results	
1	
Actual Results	

TABLE C39 SIZE ES	STIMATIN	G TEM	PLATE			
Student Date						
Instructor Progra				m#		
BASE PROGRAM LO BASE SIZE (B) =		=> =	> =>		ESTIMATE	ACTUAL
LOC DELETED (D)	=> =>	=> =	> =>	=> => =>		
LOC MODIFIED (M	1) => =>	=>=	> =>	=> => =>		
OBJECT1OC			£			
BASE ADDITIONS	TYPE1	METH	ODS	REL. SIZE	LOC	LOC
TOTAL BASE ADDIT	ONS (BA)=	=> =>	=> =	:> => =>		
NEW OBJECTS	TYPE	METH	ODS	REL. SIZE	LOC (New	Reused*)
		-				
						
				-		
TOTAL MENU 00 1500					* * * * * * * * * * * * * * * * * * * *	
TOTAL NEW OBJECT	IS (NO)=>	=>=	> =>	=> => =>		
REUSED OBJECTS						

			<u> </u>			
		-				
REUSED TOTAL (R	1 => =>	=>=	> =>	=> =>		
					SIZE	TIME
Estimated Object LOC	(E):		E=B	A+NO+M	0.22	
Regression Parameters	:		β_0 (s	ize and time)		
Regression Parameters:			β ₁ (s	ize and time)		
Estimated New and Cha	anged LOC	(N):	N=β	₀ +β ₁ *Ε		
Estimated Total LOC:			T=N	+B-D-M+R		
Estimated Total New Re	euse (sum d	of * LOC):			
Estimated Total Develop	oment Time	:	Time	$=\beta_0+\beta_1^*E$		
Prediction Range:			Rang			
Upper Prediction Interva	al:		UPI=	N+Range		SE 1140
Lower Prediction Interva	al:		LPI=	N-Range		
Prediction Interval Perce	ent:					

¹L=Logic, I=I/O, C=Calculation, T=Text, D=Data, S=Set-up