Table C55 PSP2 Project Plan Summary

Student			Date	
Program			Program #	
Instructor			Language	
Summary LOC/Hour	Plan	Acti	ıal ————————————————————————————————————	To Date
Planned Time		_		
Actual Time				
CPI(Cost-Performance Index)			_	(Planned/Actual)
% Reused				(Frances / Tetuar)
% New Reused				
Test Defects/KLOC				
Total Defects/KLOC		_		
Yield %		_		
Program Size (LOC): Base(B)	Plan	Acti	ıal	To Date
Deleted (D)	(Measured)	(Measu	ired)	
Deleted (D)	(Estimated)	(Coun	ted)	
Modified (M)		<u> </u>		
Added (A)	(Estimated)	(Coun	ted)	
Added (A)	(N-M)	(T-B+l	D-R)	
Reused (R)				
Total New & Changed (N)	(Estimated)	(Coun	ted)	
Total New & Changed (N)	(Estimated)	(A+l	<u>M)</u> —	
Total LOC (T)	OL D.M.D. D.	(Measured)		
Total New Reused Upper Prediction Interval (70%) Lower Prediction Interval (70%)	(N+B-M-D+R)	(Meast		
Time in Phase (min.) Planning	Plan	Actual	To Date	To Date %
Design				
Design review				_
Code				_
Code review				_
Compile				
Test				_
Postmortem				-
Total Total Time UPI (70%)				_
Total Time UFI (70%) Total Time LPI (70%)				
10000 10100 LA 1 (10/0)	(co	ntinued)		
	(60)			

Table C55 PSP2 Project Plan Summary (continued)

Student			Date	
Program			Program #	
Instructor			Language	
Defects Injected Planning	Plan	Actual	To Date	To Date %
Design	-			
Design review	•			
Code	-			-
Code review	_			
Compile				
Test	_			
Total Development				
Defects Removed Planning	Plan	Actual	To Date	To Date %
Design	_			
Design review	_			
Code	_			
Code review				
Compile				
Test				
Total Development				
After Development				
Defect Removal Efficiency Defects/Hour - Design review	Plan	A	ctual	To Date
Defects/Hour - Code review				
Defects/Hour - Compile				
Defects/Hour - Test				
DRL(DLDR/UT)				
DRL(CodeReview/UT)				
DRL(Compile/UT)				

Table C57 C++ PSP2 Design Review Checklist

PROGRAM NAME AND #:

Purpose	To guide you in conducting an effective design review		
General	As you complete each review step, check that item in the box to the right. Complete the checklist for one program unit before you start to review the next.		
Complete	Ensure that the requirements, specifications, and high-level design are completely covered by the design: - all specified outputs are produced - all needed inputs are furnished - all required includes are stated		
Logic	Verify that program sequencing is proper: - that stacks, lists, etc. are in the proper order - that recursion unwinds properly Verify that all loops are properly initiated, incremented, and terminated		
Special Cases	Check all special cases: - empty, full, minimum, maximum, negative, zero - out of limits, overflow, underflow - ensure "impossible" conditions are absolutely impossible - handle all incorrect input conditions		
Functional use	Verify that all functions, procedures, or objects are fully understood and properly used Verify that all externally referenced abstractions are precisely defined		
Names	Verify that: - all special names and types are clear or specifically defined - the scopes of all variables and parameters are self-evident or defined - all named objects are used within their declared scopes		
Standards	Review the design for conformance to all applicable design standards		

Table C58 C++ Code Review Checklist

PROGRAM NAME AND #:

Purpose	To guide you in conducting an effective code review.		
General	As you complete each review step, check that item in the box to the right. Complete the checklist for one program unit before you start to review the next.		
Complete	Verify that the code covers all the design.		
Includes	Verify that includes are complete		
Initialization	Check variable and parameter initialization: - at program initiation - at start of every loop - at function/procedure entry		
Calls	Check function call formats: - pointers - parameters - use of '&'		
Names	Check name spelling and use: - is it consistent? - is it within declared scope? - do all structures and classes use '.' reference?		
Strings	Check that all strings are - identified by pointers and - terminated in NULL.		
Pointers	Check that - pointers are initialized NULL - pointers are deleted only after new, and - new pointers are always deleted after use.		
Output Format	Check the output format: - line stepping is proper - spacing is proper		
{} Pairs	Ensure that the {} are proper and matched		
Logic Operators	Verify the proper use of ==, =, , and so on. Check every logic function for proper ().		
Line by Line Check	Check every LOC for - instruction syntax and - proper punctuation.		
Standards	Ensure that the code conforms to the coding standards.		
File Open and Close	Verify that all files are - properly declared, - opened, and - closed.		

Table C39 Size Estimating Template

Student		Date
Instructor		Program #
BASE PROGRAM		LOC
$BASE\ SIZE\ (B) \Longrightarrow \Longrightarrow \Longrightarrow \Longrightarrow $	=> => => => =>	
LOC DELETED (D) => => =>	=> => => => =>	
LOC MODIFIED (M) => => =>	=> => => => =>	
PROJECTED LOC		
BASE ADDITIONS: TYPE	METHODS REI	SIZE LOC
TOTAL BASE ADDITIONS (BA)	=> => => => =>	
NEW OBJECTS: TYPE1	METHODS REI	SIZE LOC (NewReuse*
TOTAL NEW OBJECTS (NO) =>		
101121.21. 0202010 (1(0)		
REUSED PROGRAMS		LOC
REUSED TOTAL (R) => => =>	=> => => => =>	
Projected LOC:	P = BA + NO	
Regression Parameter:	$oldsymbol{eta}_0$	
Regression Parameter:	$oldsymbol{eta}_1$	
Estimated New and Changed LOC:	$N = \beta_0 + \beta_1 * (P+M)$	
Estimated Total LOC:	T = N + B - D - M + R	
Estimated Total New Reused (sum of * L	OC):	
Prediction Range:	Range	
Upper Prediction Interval:	UPI = N + Range	
Lower Prediction Interval:	LPI = N - Range	
Prediction Interval Percent:		

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