Laboratory 1: Cover Sheet		
Name	Date	
Section		

Laboratory 1: Text ADT

Place a check mark in the *Assigned* column next to the exercises your instructor has assigned to you. Attach this cover sheet to the front of the packet of materials you submit following the laboratory.

Activities	Assigned: Check or list exercise numbers	Completed
Implementation Testing	V	
Programming Exercise 1		
Programming Exercise 2		
Programming Exercise 3		
Analysis Exercise 1		
Analysis Exercise 2		
	Total	

Laboratory 1: Implementation Testing

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Check with your instructor whether you are to complete this exercise prior to your lab period or during lab.

Test your implementation of the Text ADT using the program in the file *test1.cpp*. This program supports the following tests.

Lab 1 Online Test Plans		
Test	Action	
1-1	Tests the constructors.	
1-2	Tests the length operation.	
1-3	Tests the subscript operation.	
1-4	Tests the assignment and clear operations.	

Test Plan 1-1 (constructors)				
Test case String Expected result Checked				
Simple string	alpha	alpha		
Longer string	epsilon			
Single-character string	а			
Empty string	empty			

Test Plan 1–2 (length operation)				
Test case String Expected length Checked				
Simple string	alpha	5		
Longer string	epsilon			
Single-character string	а			
Empty string	empty			

Test Plan 1–3 (subscript operation)					
Test case n Expected character Checket					Checked
Middle character	2			p	
First character	0				
Last character	4				
Out of range	10				

Test Plan 1-4 (assignment and clear operations)				
Test case	Test case Assignment statement Expected result			
Simple assignment	assignStr = alpha;	alpha		
Single-character string	assignStr = a;			
Empty string	assignStr = empty;			
Source string longer than destination buffer	assignStr = epsilon;			
Assign to self	assignStr = assignStr;			
Check assignment by clearing destination	<pre>assignStr = alpha; assignStr.clear();</pre>			

Laboratory 1: Programming Exercise 1

Name	Date
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Test Plan 1–5 (lexical analysis program)			
Test case Expected result Check			
Program in the file progsamp.dat			
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Laboratory 1: Programming Exercise 3

Name	Date	
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Test Plan 1-7 (relational operations)			
Test case	Pair of strings	Expected result	Checked
Second string greater	alpha epsilon		
First string greater	epsilon alpha		
Identical strings	alpha alpha		
First string embedded in second	alp alpha		
Second string embedded in first	alpha alp		
First string is a single character	a alpha		
Second string is a single character	alpha a		
First string is empty	empty alpha		
Second string is empty	alpha <i>empty</i>		
Both strings are empty	empty empty		