Laboratory 5: Cover Sheet

Name Leah Gramer	Date 09 06 2017	
Section	· 	

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	✓	
Programming Exercise 1		
Programming Exercise 2	V	
Programming Exercise 3	✓	
Analysis Exercise 1		
Analysis Exercise 2		
	Total	

Laboratory 5: 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 List ADT using the test program in the file *test5.cpp*. This program allows you to interactively test your implementation of the List ADT using the following commands.

Test Plan 5-1 (operations in the List ADT)			
Commands	Expected result	Checked	
+a +b +c +d	a b c d	/	
< N N	a b c d	/	
> P P	a b c d	/	
-	a c d	/	
+e +f +f	acef f d	✓	
> -	a c e f f		
-	c e f f		
@	Returns c	/	
=g	g e f f	/	
С	Empty list		
	Commands +a +b +c +d < N N > P P - +e +f +f > - - @ =g	Commands Expected result +a +b +c +d a b c d < N N	

Test Plan 5-2 (List ADT operations using integers)			
Test case	Commands	Expected result	Checked
Insert at end	+1 +2 +3 +4	1 2 3 4	
Travel from beginning	< N N	1 2 3 4	
Travel from end	> P P	1 2 3 4	/
Delete middle data item	-	1 3 4	/

Laboratory 5: Programming Exercise 2

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Test Plan 5-4 (moveToBeginning operation)			
Test case	Commands	Expected result	Checked
Set up list	+a +b +c +d	a b c d	
Move last data item	М	d a b c	
Move second data item	N M	a d b c	
Move third data item	N N M	b a d c	

Laboratory 5: Programming Exercise 3

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Test Plan 5-5 (insertBefore operation)			
Test case	Commands	Expected result	Checked
Set up list	+a +b +c	a b c	
Insert in middle	#d	a b d c	
Cascade inserts	#e	a b e d c	
Insert after head	P #f	a f bedc	
Insert as head	P #g	g a f b e c	