Victor Rogers, Martin Tuck, Tyler Yasaka

Case 1	Testing: Constructor	Condition:	Create list and Print	Case 2	Testing: Copy Constructor	Condition:	On empty
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	9:53:00 AM Print all items inserted.	Printed all items inserted.	No	10/9/2014	9:06:00 PM [-10000]	[-10000]	No
Case 3	Testing: Copy Constructor	Condition:	Head only	Case 4	Testing: Copy Constructor	Condition:	Left tree only
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	9:17:00 PM New copy: [4]	4	No	10/9/2014 10	0:36:00 PM all items copied and original tree unchanged	all items copied original tree unchanged	No
Case 5	Testing: Copy Constructor	Condition:	Right tree only	Case 6	Testing: Copy Constructor	Condition:	Left and right tree
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	10:48:00 PM all items copied and original tree unchanged	all items copied original tree unchanged	No	10/9/2014		all items copied original tree unchanged	No
Case 7	Testing: Destructor	Condition:	On empty	Case 8	Testing: Destructor	Condition:	Head only
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/10/2014	7:02:00 PM (Nothing)	(Nothing)	No	10/10/2014	7:04:00 PM (Nothing)	(Nothing)	No
Case 9	Testing: Destructor	Condition:	Left tree only	Case 10	Testing: Destructor	Condition:	Right tree only
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/10/2014	7:06:00 PM (Nothing)	(Nothing)	No	10/10/2014	7:07:00 PM (Nothing)	(Nothing)	No
Case 11	Testing: Destructor	Condition:	Call destructor, add items, then Print	Case 12	Testing: Assignment Operator	Condition:	Assign tree with both branche
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/10/2014	7:09:00 PM -23 8 [39]	-23 8 [39]	No	10/9/2014 1	0:58:00 PM Assign tree to new tree	Assigned correctly, original was untouched	No
Case 13	Testing: Assignment Operato	r Condition:	Assign using empty tree	Case 14	Testing: Assignment Operator	Condition:	Assign tree with right branch
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	11:02:00 PM New empty tree created	Empty tree created original remained empty after new tree was created	No	10/10/2014		New tree created orignial tree unchanged	No
Case 15	Testing: Assignment Operato	r Condition:	Assign tree with left branch	Case 16	Testing: Insert	Condition:	Insert empty
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/10/2014	3:19:00 PM New tree created orignia tree unchanged	l New tree created orignial tree unchanged	No	10/10/2014	3:22:00 PM item inserted as head	item inserted as head	No

Case 17	Testing: Insert	Condition:	Insert left of head	Case 18	Testing: Insert	Condition:	Insert right of head
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/10/2014	3:25:00 PM item inserted to left of head	item inserted to left of head	No	10/10/2014	3:26:00 PM Item inserted to right of head	Item inserted to right of head	No
Case 19	Testing: Remove	Condition:	Remove empty twice.	Case 20	Testing: Remove	Condition:	Remove root (only item in tree).
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	11:24:00 AM Nothing happens.	Nothing happened.	No	10/9/2014	11:27:00 AM Empy list.	Empty list.	No
Case 21	Testing: Remove	Condition: R	emove root, no left children.	Case 22	Testing: Remove	Condition:	Remove root, no right children
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	11:29:00 AM Immediate right child becomes root.	Immediate right child became root.	No	10/9/2014	11:46:00 AM Immediate left child becomes root.	Immediate left child became root.	No
Case 23	Testing: Remove	Condition:	Remove leaf	Case 24	Testing: Remove	Condition:	Remove non-leaf with right child
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	11:51:00 AM Leaf is removed.	Leaf was removed.	No	10/9/2014	11:52:00 AM Item is removed, item's children are kept.	Item was removed, item's children were kept.	No
Case 25	Testing: Remove	Condition:	Remove non-leaf with left child	Case 26	Testing: Remove	Condition:	Remove non-leaf with 2 children
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	11:55:00 AM Item is removed, item's children are kept.	Item was removed, item's children were kept.	No	10/9/2014	12:07:00 PM Smallest in right takes it place.	s Smallest right child took its place.	No
Case 27	Testing: PrintIn	Condition:	Empty	Case 28	Testing: PrintIn	Condition:	Head only
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	12:16:00 PM Print empty line.	Printed empty line.	No	10/9/2014	12:17:00 PM Print Root.	Printed root.	No
Case 29	Testing: PrintIn	Condition:	Left tree	Case 30	Testing: PrintIn	Condition:	Right tree
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	12:19:00 PM Print everything in order	. Printed everything in order.	No	10/9/2014	12:19:00 PM Print everything in order	. Printed everything in order.	No
Case 31	Testing: PrintIn	Condition:	Left and right tree	Case 32	Testing: PrintPre	Condition:	Empty
Date	Time Expected Result	Actual Result	Action Needed	Date	Time Expected Result	Actual Result	Action Needed
10/9/2014	12:20:00 PM Print everything in order	. Printed everything in order.	No	10/9/2014	12:21:00 PM Print nothing.	Printed nothing.	No

Case 33	Condition:	PrintPre	Condition:	Head only	Case 34	Testing: F	PrintPre	Condition:	Left tree
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
	12:22:00 PM		Printed root.	No No		12:23:00 PM P	•	printed in preorder	No No
10/3/2014	12.22.00 FM	Fillic 100c	rinited foot.	NO	10/3/2014	12.23.00 FM F	Thic in preorder	printed in preorder	INU
Case 35	Testing:	PrintPre	Condition:	Right tree	Case 36	Testing: F	PrintPre	Condition:	Left and right tree
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:27:00 PM	print in preorder	printed in preorder	No	10/9/2014	12:29:00 PM p	rint in preorder	printed in preorder	No
Case 37	Testing:	PrintPost	Condition:	Empty	Case 38	Testing: P	PrintPost	Condition:	Head only
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:31:00 PM	print nothing	nothing	No	10/9/2014	12:32:00 PM p	rint root	printed root	No
G 20	Tarkhan	D. Cal David	Constitute		C 40	Tankin na B	N. S. I. De al	. Constitution	Piolo bear
Case 39	Testing:		Condition:	Left tree	Case 40	Testing: F		Condition:	
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:33:00 PM	print postorder	printed postorder	No	10/9/2014	12:35:00 PM p	rint postorder	printed postorder	No
Case 41	Testing:	PrintPost	Condition:	Left and right tree	Case 42	Testing: F	ind	Condition:	On empty
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:36:00 PM	print postorder	printed postorder	No	10/92014	12:41:00 PM N	lothing found	Segmentation fault	Fix GoToBeginning() function to handle
					10/13/2014	5:47:00 PM N	lot found	(core dumped) Not found	emptý lists. No
Case 43	Testing:	Find	Condition:	Item not in tree	Case 44	Testing: F	ind	Condition:	Item is the root
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:45:00 PM	Nothing found	nothing found	No	10/9/2014	12:45:00 PM fo	ound	found	No
Case 45	Testing:	Find	Condition:	Item is in left subtree	Case 46	Testing: F	ind	Condition:	Item is in right subtree
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:47:00 PM	found	found	No	10/9/2014	12:48:00 PM r	ound	found	No
Case 47	Testing:	AtCursor	Condition:	Empty	Case 48	Testing: A	tCursor	Condition:	Head
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	2:08:00 AM	Return "Null Pointer"	Worked as expected	No	10/9/2014		eturns data located in he root	Worked as expected	No
Case 49	Testing:	AtCursor	Condition:	Left child	Case 50	Testing: A	AtCursor	Condition:	Right child
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014		Returns data at the cursor location when the cursor's node has a left child	Worked as expected	No	10/9/2014	C	leturns data at the ursor location when the ursor's node has a right hild	Worked as expected	No

Case 51	Testing: AtCursor	Condition: Co	urrent cursor node removed	Case 52	Testing:	AtCursor	Condition: (Cursor node when root removed
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	2:14:00 AM Cursor moves to followin item in list	g Cursor dissapears	Yes	10/9/2014	2:22:00 AM	Cursor stays at the same node	Cursor dissapears	Yes
10/13/2014	5:51:00 AM Cursor moves to followin item in list	g Cursor moves to following item in list	No	10/13/2014	5:52:00 AM	I Cursor stays at the same node	Cursor stays at the same node	No
Case 53	Testing: GoToBeginning	Condition:	Empty	Case 54	Testing:	GoToBeginning	Condition:	Head only
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	1:37:00 AM List is empty - Nothing happens	Program crashed	Yes	10/9/2014	1:40:00 AM	Cursor remains at root	Worked as expected	No
10/13/2014	5:53:00 PM List is empty - Nothing happens	List is empty - Nothing happens	No					
Case 55	Testing: GoToBeginning	Condition:	No left subtree	Case 56	Testing:	GoToBeginning	Condition:	Left subtree
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	1:42:00 AM Cursor moves from current location back to the root	Worked as expected	No	10/9/2014	1:44:00 AM	Cursor moves from current location to smallest item in left subtree	Worked as expected	No
Case 57	Testing: GoToEnd	Condition:	Empty	Case 58	Testing:	GoToEnd	Condition:	Head only
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	1:37:00 AM List is empty - Nothing happens	Program crashed	Yes	10/9/2014	1:48:00 AM	Cursor remains at root	Worked as expected	No
10/13/2014	5:55:00 PM List is empty - Nothing happens	List is empty - Nothing happens	No					
Case 59	Testing: GoToEnd	Condition:	No right subtree	Case 60	Testing:	GoToEnd	Condition:	Right subtree
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	1:50:00 AM Cursor moves from its current location back to the root	Worked as expected	No	10/9/2014	1:52:00 AM	Cursor moves from its current location to the end of the list	Worked as expected	No
Case 61	Testing: GoToNext	Condition:	Empty	Case 62	Testing:	GoToNext	Condition:	Head only
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	1:29:00 AM List remains empty	Worked as expected	No	10/9/2014	1:30:00 AM	Cursor remains at root	Worked as expected	No
Case 63	Testing: GoToNext	Condition:	Largest in left subtree	Case 64	Testing:	GoToNext	Condition:	Largest in right subtree
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	1:32:00 AM Cursor moves from largest in left subtree back to the root	Worked as expected	No	10/9/2014	1:33:00 AM	Cursor loops from the largest item to the smallest	Cursor did not loop back to the smallest item	Yes
				10/13/2014	5:57:00 AM	Cursor loops from the largest item to the smallest	Cursor loops from the largest item to the smallest	No

Case 65	Testing:	GoToPrev	Condition:	Empty	Case 66	Testina:	GoToPrev	Condition:	Head only
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
		List remains empty	Worked as expected	No			Cursor remains at head	Worked as expected	No
,-,					-5,5,				
Case 67	Testing:	GoToPrev	Condition:	Smallest in left subtree	Case 68	Testing:	GoToPrev	Condition:	Smallest in right subtree
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:56:00 PM	Cursor should loop from smallest item to largest	Cursor did not loop properly	Yes	10/9/2014	1:26:00 AM	Cursor moved from the smallest in the right subtree to the root	Worked as expected	No
10/13/2014	6:00:00 PM	Cursor should loop from smallest item to largest	Cursor loops from smallest item to largest	No					
Case 69	Testing:	ClearList	Condition:	Clear empty	Case 70	Testing:	ClearList	Condition:	Clear when there is only a head
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:37:00 PM	List is still empty	Worked as expected	No	10/9/2014	12:38:00 PM	I Clears the list	Worked as expected	No
Case 71	Testing:	ClearList	Condition:	Clear with left subtree	Case 72	Testing:	ClearList	Condition:	Clear with right subtree
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:39:00 PM	Clears the list with only a left subtree	a Worked as expected	No	10/9/2014	12:40:00 PM	Clears the list with only a right subtree	Worked as expected	No
Case 73	Testing:		Condition:	Clear left and right subtrees	Case 74	Testing:	ClearList	Condition:	Check empty > Insert > Print
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:41:00 PM	Clears the list with both a left and right subtree	a Worked as expected	No	10/9/2014	12:43:00 PM	I Prints a new list without any errors	Worked as expected	No
Case 75	Testing:	EmptyList	Condition:	Head only	Case 76	Testing:	EmptyList	Condition:	Empty list
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:34:00 PM	Returns List is Not Empty	/ Worked as expected	No	10/9/2014	12:32:00 PM	I Returns List is Empty	Worked as expected	No
Case 77	Testing:	EmptyList	Condition:	Non-empty list	Case 78	Testing:	EmptyList	Condition:	Non-empty>Clear>Check empty
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:35:00 PM	Returns List is Not Empty	Worked as expected	No	10/9/2014	12:36:00 PM	Returns list is Empty	Worked as expected	No
Case 79	Testing:	GetHeight	Condition:	Empty list	Case 80	Testing:	GetHeight	Condition:	Root only
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:05:00 PM	Returns height of 0	Worked as expected	No	10/9/2014	12:07:00 PM	Returns height of 1	Worked as expected	No
Case 81	Testing:	GetHeight	Condition:	Left branch only	Case 82	Testing:	GetHeight	Condition:	Right branch only
Date	Time	Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014		Returns a correct height with only left subtree	Worked as expected	No	10/9/2014	12:10:00 PM	Returns a correct height with only right subtree	Worked as expected	No

Case 83	Testing: GetHeight	Condition:	Two branches - Skewed left	Case 84	Testing:	GetHeight	Condition:	Two branches - Skewed right
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:15:00 PM Returns a correct height from a tree skewed to th left	Worked as expected e	No	10/9/2014	12:16:00 PM	Returns a correct height from a tree skewed to th right		No
Case 85	Testing: GetHeight	Condition:	Two branches - Equal	Case 86	Testing:	PrintInfo	Condition:	Empty
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	12:18:00 PM Returns a correct height from a proportional tree	Worked as expected	No	10/9/2014	11:40:00 AM	I Info table appears with no data	Worked as expected	No
Case 87	Testing: PrintInfo	Condition:	Head only	Case 88	Testing:	PrintInfo	Condition:	Left subtree
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014	11:48:00 AM Info table appears with only one data item marked as the root	Everything worked correctly	No	10/9/2014	11:51:00 AM	I Info table appears and correctly displays info for a BST skewed to the left	Worked as expected	No
Case 89	Testing: PrintInfo	Condition:	Right subtree	Case 90	Testing:	PrintInfo	Condition:	Left and right subtrees
Date	Time Expected Result	Actual Result	Action Needed	Date	Time	Expected Result	Actual Result	Action Needed
10/9/2014				10/9/2014		I Info table appears and	Worked as expected	No