KEY: Orange highlight = Test Added during this milestone Red highlight = Impossible test case

Test	Equivalence class partitioning(Wect, Sect, Wrect, Srect)				
testAddNodeToCac he	 Variables: List remaining cache size Object O Equivalence classes L1: L=0 L2: L>0 O1: O does not already exist in list O2: O already exists in list Wect 				
	ID	0			
	WECT1	L1	O1		
	WECT2	L2	O2		
	• Sect		1	1	
	ID	L	I		
	SECT1	L1	O1		
	SECT2	L2	O1		
	SECT3	L1	O2		
	SECT4	L2	O2		
	Wrect and Srect wWrect and srect ar		•		
testGetMaximumC acheSize	 Equivalence class L1: L=0 L2: L>0 Thus, wect and se a nonempty This is alre Wrect and Srect w 	 Cache maximum size Equivalence classes L1: L=0 L2: L>0 Thus, wect and sect are both covered by using an empty list and a nonempty 			
testShrinkCacheTo	Variables:				

MaximumSize List cache L o Maximum cache size M Equivalence classes o L1: L=0 o L2: L>0 o M1: M<0 o M2: M>=0 && M<L ○ M3: M >= L Wect L Μ ID WECT1 L1 M1 WECT2 L2 M2 WECT3 L1 М3 Sect L Μ ID SECT1 L1 M1 L2 M1 SECT2 M2 SECT3 L1 SECT4 L2 M2 L1 SECT5 М3 L2 М3 SECT6 • Wrect and Srect would involve L < 0 but this is not possible Wrect and srect are also covered by testing of a null variable list testGetNodeFrom Variables: o List cache L Cache o Index I • Equivalence classes o L1: L=0 o L2: L>0 o I1: I<0 ○ I2: I>=0 && I<L ○ I3: I>=L Wect

					1	
		ID	L	I		
		WECT1	L1	l1		
		WECT2	L2	12		
		WECT3	L1	13		
	•	Sect				
		ID	L	I		
		SECT1	L1	I1		
		SECT2	L2	I1		
		SECT3	L1	12		
		SECT4	L2	12		
		SECT5	L1	13		
		SECT6	L2	13		
	•	Wrect and Srect would involve L < 0 but this is not possible Wrect and srect are also covered by testing of a null variable list				
testIsCacheFull	•	Variables: O Remaining cache size R Equivalence classes O R1: R=0 O R2: R>0 Thus, wect and sect are both covered by using an empty list and				
	•	a nonempty This is already done Wrect and Srect would involve R < 0 but this is not possible Wrect and rect are covered by testing of a null variable list				
testNodeCachingLi nkedList	•	Variables:				

Test	Boundary Value Analysis				
testGetNodeFromCache	 Variables: List cach L Index I Test Set BVL: {nom:L=0,nom:L>0} BVI: {min-:I=-1,min:I=0,min+:I=1,nom:1<i<l, -="" 1,="" 2,="" i="L}</li" max+:="" max-:="" max:=""> </i<l,> BVA (basic) 				
	ID L I				
	BVA (basic) 1 L>0 0				
	BVA (basic) 2 L>0 1				
	BVA (basic) 3 L>0 nom				
	BVA (basic) 4 L>0 L-2				
	BVA (basic) 5				
	BVA (robust)				
	ID L I				
	BVA (robust) 1 L>0 -1				
	BVA (robust) 2 L>0 0				
	BVA (robust) 3 L>0 1				
	BVA (robust) 4 L>0 nom				
	BVA (robust) 5 L>0 L-2				
	BVA (robust) 6 L>0 L-1				
	BVA (robust) 7 L>0 L				
	<u> </u>				

Test	Decision Table				
testAddNodeToCac he	 Conditions C1:L<=0? C2: Object can be inserted? Actions A1: Object is inserted Table 				
	Test Case ID	C1	C2	Expected Output]
	TC1	Y/T	-	-	1
	TC2	N/F	Y/T	Object inserted	1
	TC3	N/F	N/F	No change]
testGetMaximumC acheSize	 Conditions C1: L<=0? C2: max size in range? Actions A1: Size is gotten Table 				
	Test Case ID	C1	C2	Expected Output	
	TC1	Y/T	-	-	
	TC2	N/F	Y/T	Object at index	
	TC3	N/F	N/F	Error	
testShrinkCacheTo MaximumSize	 Conditions C1:L<=0? C2: Current size in range? Actions A1: Cache size shrinks Table 				1
	Test Case ID	C1	C2	Expected Output	
	TC1	Y/T	-	-	
	TC2	N/F	Y/T	Object at index	
	TC3	N/F	N/F	Error	

testGetNodeFrom Cache	○ C2 • Actions	:L<=0? :Index i	_		
	Test Case ID	C1	C2	Expected Output	
	TC1	Y/T	-	-	
	TC2	N/F	Y/T	Object at index	
	TC3	N/F	N/F	Error	
					•
testIsCacheFull	 Conditions C1:L<=0? C2: Cache is full? Actions A1: Check cache size and max size Table 				
	Test Case ID	C1	C2	Expected Output	
	TC1	Y/T	-	-	
	TC2	N/F	Y/T	True	
	TC3	N/F	N/F	False	
		-	-		