

KEY: Orange highlight = Test Added during this milestone

Red highlight = Impossible test case

Test	Equivalence class partitioning(Wect, Sect, Wrect, Srect)																								
testAdd	<ul style="list-style-type: none">Variables:<ul style="list-style-type: none">List length LObject OEquivalence classes<ul style="list-style-type: none">L1:L=0L2:L>0O1: O does not already exist in listO2: O already exists in listWect<table><tr><td>ID</td><td>L</td><td>O</td></tr><tr><td>WECT1</td><td>L1</td><td>O1</td></tr><tr><td>WECT2</td><td>L2</td><td>O2</td></tr></table>Sect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>SECT1</td><td>L1</td><td>O1</td></tr><tr><td>SECT2</td><td>L2</td><td>O1</td></tr><tr><td>SECT3</td><td>L1</td><td>O2</td></tr><tr><td>SECT4</td><td>L2</td><td>O2</td></tr></table>Wrect and Srect would involve L < 0 but this is not possibleWrect and srect are covered by testing of a null variable list	ID	L	O	WECT1	L1	O1	WECT2	L2	O2	ID	L	I	SECT1	L1	O1	SECT2	L2	O1	SECT3	L1	O2	SECT4	L2	O2
ID	L	O																							
WECT1	L1	O1																							
WECT2	L2	O2																							
ID	L	I																							
SECT1	L1	O1																							
SECT2	L2	O1																							
SECT3	L1	O2																							
SECT4	L2	O2																							
testClear	<ul style="list-style-type: none">Variables:<ul style="list-style-type: none">List length LEquivalence classes<ul style="list-style-type: none">L1: L=0L2: L>0Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">This is already doneWrect and Srect would involve L < 0 but this is not possibleWrect and rect are covered by testing of a null variable list																								
testContains	<ul style="list-style-type: none">Variables:																								

	<ul style="list-style-type: none"><ul style="list-style-type: none">List length LObject OEquivalence classes<ul style="list-style-type: none">L1:L=0L2:L>0O1:O is in listO2:O is not in listWect<table><tr><td>ID</td><td>L</td><td>O</td></tr><tr><td>WECT1</td><td>L1</td><td>O1</td></tr><tr><td>WECT2</td><td>L2</td><td>O2</td></tr></table>Sect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>SECT1</td><td>L1</td><td>O1</td></tr><tr><td>SECT2</td><td>L2</td><td>O1</td></tr><tr><td>SECT3</td><td>L1</td><td>O2</td></tr><tr><td>SECT4</td><td>L2</td><td>O2</td></tr></table>Wrect and Srect would involve L < 0 but this is not possibleWrect and srect are covered by WECT1, SECT1Wrect and srect are also covered by testing of a null variable list	ID	L	O	WECT1	L1	O1	WECT2	L2	O2	ID	L	I	SECT1	L1	O1	SECT2	L2	O1	SECT3	L1	O2	SECT4	L2	O2
ID	L	O																							
WECT1	L1	O1																							
WECT2	L2	O2																							
ID	L	I																							
SECT1	L1	O1																							
SECT2	L2	O1																							
SECT3	L1	O2																							
SECT4	L2	O2																							
testContainsAll	<ul style="list-style-type: none">Variables:<ul style="list-style-type: none">List length LObject list OEquivalence classes<ul style="list-style-type: none">L1: L=0L2: L>0O1: All of O is in listO2: Not all of O is not in listWect<table><tr><td>ID</td><td>L</td><td>O</td></tr><tr><td>WECT1</td><td>L1</td><td>O1</td></tr><tr><td>WECT2</td><td>L2</td><td>O2</td></tr></table>Sect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>SECT1</td><td>L1</td><td>O1</td></tr></table>	ID	L	O	WECT1	L1	O1	WECT2	L2	O2	ID	L	I	SECT1	L1	O1									
ID	L	O																							
WECT1	L1	O1																							
WECT2	L2	O2																							
ID	L	I																							
SECT1	L1	O1																							

	<table><tr><td>SECT2</td><td>L2</td><td>O1</td></tr><tr><td>SECT3</td><td>L1</td><td>O2</td></tr><tr><td>SECT4</td><td>L2</td><td>O2</td></tr></table> <ul style="list-style-type: none">• 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	SECT2	L2	O1	SECT3	L1	O2	SECT4	L2	O2
SECT2	L2	O1								
SECT3	L1	O2								
SECT4	L2	O2								
testEquals	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes<ul style="list-style-type: none">◦ L1:L=0◦ L2:L>0• Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">◦ This is already done• Wrect and Srect would involve $L < 0$ but this is not possible• Wrect and srect are covered by testing of a null variable list									
testHashCode	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes<ul style="list-style-type: none">◦ L1:L=0◦ L2:L>0• Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">◦ This is already done• Wrect and Srect would involve $L < 0$ but this is not possible• Wrect and srect are covered by testing of a null variable list									
testGet	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L◦ Index I• Equivalence classes<ul style="list-style-type: none">◦ L1: L=0◦ L2: L>0◦ I1: I<0◦ I2: I>=0&&I<L◦ I3: I>=L• Wect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>WECT1</td><td>L1</td><td>I1</td></tr><tr><td>WECT2</td><td>L2</td><td>I2</td></tr></table>	ID	L	I	WECT1	L1	I1	WECT2	L2	I2
ID	L	I								
WECT1	L1	I1								
WECT2	L2	I2								

	<table><tr><td>WECT3</td><td>L1</td><td>I3</td></tr></table> <ul style="list-style-type: none">Sect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>SECT1</td><td>L1</td><td>I1</td></tr><tr><td>SECT2</td><td>L2</td><td>I1</td></tr><tr><td>SECT3</td><td>L1</td><td>I2</td></tr><tr><td>SECT4</td><td>L2</td><td>I2</td></tr><tr><td>SECT5</td><td>L1</td><td>I3</td></tr><tr><td>SECT6</td><td>L2</td><td>I3</td></tr></table><ul style="list-style-type: none">Wrect and Srect would involve $L < 0$ but this is not possibleWrect and srect are covered by WECT1, WECT3, SECT1, SECT2, SECT5, and SECT6Wrect and srect are also covered by testing of a null variable list	WECT3	L1	I3	ID	L	I	SECT1	L1	I1	SECT2	L2	I1	SECT3	L1	I2	SECT4	L2	I2	SECT5	L1	I3	SECT6	L2	I3
WECT3	L1	I3																							
ID	L	I																							
SECT1	L1	I1																							
SECT2	L2	I1																							
SECT3	L1	I2																							
SECT4	L2	I2																							
SECT5	L1	I3																							
SECT6	L2	I3																							
testIndexOf	<ul style="list-style-type: none">Variables:<ul style="list-style-type: none">List length LObject OEquivalence classes<ul style="list-style-type: none">L1: $L=0$L2: $L>0$O1: O is in listO2: O is not in listWect<table><tr><td>ID</td><td>L</td><td>O</td></tr><tr><td>WECT1</td><td>L1</td><td>O1</td></tr><tr><td>WECT2</td><td>L2</td><td>O2</td></tr></table><ul style="list-style-type: none">Sect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>SECT1</td><td>L1</td><td>O1</td></tr></table>	ID	L	O	WECT1	L1	O1	WECT2	L2	O2	ID	L	I	SECT1	L1	O1									
ID	L	O																							
WECT1	L1	O1																							
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SECT2	L2	O1								
SECT3	L1	O2								
SECT4	L2	O2								
testIsEmpty	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes<ul style="list-style-type: none">◦ L1: $L=0$◦ L2: $L>0$• Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">◦ This is already done• Wrect and Srect would involve $L < 0$ but this is not possible• Wrect and rect are covered by testing of a null variable list									
testIterator	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes<ul style="list-style-type: none">◦ L1: $L=0$◦ L2: $L>0$• Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">◦ This is already done• Wrect and Srect would involve $L < 0$ but this is not possible• Wrect and Srect are covered by testing of a null variable list									
testRemove	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes<ul style="list-style-type: none">◦ L1: $L=0$◦ L2: $L>0$• Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">◦ This is already done• Wrect and Srect would involve $L < 0$ but this is not possible• Wrect and rect are covered by testing of a null variable list									
testRemoveAll	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes<ul style="list-style-type: none">◦ L1: $L=0$									

	<ul style="list-style-type: none">○ L2: L>0● Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">○ This is already done● Wrect and Srect would involve L < 0 but this is not possible● Wrect and rect are covered by testing of a null variable list																																	
testRemoveByIndex	<ul style="list-style-type: none">● Variables:<ul style="list-style-type: none">○ List length L○ Index I● Equivalence classes<ul style="list-style-type: none">○ L1:L=0○ L2:L>0○ I1:I<0○ I2:I>=0 && I<L○ I3:I>=L● Wect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>WECT1</td><td>L1</td><td>I1</td></tr><tr><td>WECT2</td><td>L2</td><td>I2</td></tr><tr><td>WECT3</td><td>L1</td><td>I3</td></tr></table>● Sect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>SECT1</td><td>L1</td><td>I1</td></tr><tr><td>SECT2</td><td>L2</td><td>I1</td></tr><tr><td>SECT3</td><td>L1</td><td>I2</td></tr><tr><td>SECT4</td><td>L2</td><td>I2</td></tr><tr><td>SECT5</td><td>L1</td><td>I3</td></tr><tr><td>SECT6</td><td>L2</td><td>I3</td></tr></table>● Wrect and Srect would involve L < 0 but this is not possible● Wrect and srect are covered by WECT1, WECT3, SECT1, SECT2, SECT5, and SECT6● Wrect and srect are also covered by testing of a null variable list	ID	L	I	WECT1	L1	I1	WECT2	L2	I2	WECT3	L1	I3	ID	L	I	SECT1	L1	I1	SECT2	L2	I1	SECT3	L1	I2	SECT4	L2	I2	SECT5	L1	I3	SECT6	L2	I3
ID	L	I																																
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SECT3	L1	I2																																
SECT4	L2	I2																																
SECT5	L1	I3																																
SECT6	L2	I3																																
testRetainAll	<ul style="list-style-type: none">● Variables:<ul style="list-style-type: none">○ List length L																																	

	<ul style="list-style-type: none">○ List of objects O● Equivalence classes<ul style="list-style-type: none">○ L1:L=0○ L2:L>0○ O1: All elements of O exist in list○ O2: Some elements of O exist in list○ O3: No elements of O exist in list● Wect<table><tr><td>ID</td><td>L</td><td>O</td></tr><tr><td>WECT1</td><td>L1</td><td>O1</td></tr><tr><td>WECT2</td><td>L2</td><td>O2</td></tr><tr><td>WECT3</td><td>L1</td><td>O3</td></tr></table>● Sect<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>SECT1</td><td>L1</td><td>O1</td></tr><tr><td>SECT2</td><td>L2</td><td>O1</td></tr><tr><td>SECT3</td><td>L1</td><td>O2</td></tr><tr><td>SECT4</td><td>L2</td><td>O2</td></tr><tr><td>SECT5</td><td>L1</td><td>O3</td></tr><tr><td>SECT6</td><td>L2</td><td>O3</td></tr></table>● 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	ID	L	O	WECT1	L1	O1	WECT2	L2	O2	WECT3	L1	O3	ID	L	I	SECT1	L1	O1	SECT2	L2	O1	SECT3	L1	O2	SECT4	L2	O2	SECT5	L1	O3	SECT6	L2	O3
ID	L	O																																
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SECT3	L1	O2																																
SECT4	L2	O2																																
SECT5	L1	O3																																
SECT6	L2	O3																																
testSet	<ul style="list-style-type: none">● Variables:<ul style="list-style-type: none">○ List length L○ Index I○ Object O● Equivalence classes<ul style="list-style-type: none">○ L1: L=0○ L2: L>0○ I1: I<0○ I2: I>=0 && I<L○ I3: I>=L○ O1: O is not a duplicate○ O2: O is a duplicate● Wect<table><tr><td>ID</td><td>L</td><td>I</td><td>O</td></tr></table>	ID	L	I	O																													
ID	L	I	O																															

	<table><tr><td>WECT1</td><td>L1</td><td>I1</td><td>O1</td></tr><tr><td>WECT2</td><td>L2</td><td>I2</td><td>O2</td></tr><tr><td>WECT3</td><td>L1</td><td>I3</td><td>O1</td></tr></table> <ul style="list-style-type: none">• Sect<table><tr><td>ID</td><td>L</td><td>I</td><td>O</td></tr><tr><td>SECT1</td><td>L1</td><td>I1</td><td>O1</td></tr><tr><td>SECT2</td><td>L2</td><td>I1</td><td>O1</td></tr><tr><td>SECT3</td><td>L1</td><td>I2</td><td>O1</td></tr><tr><td>SECT4</td><td>L2</td><td>I2</td><td>O1</td></tr><tr><td>SECT5</td><td>L1</td><td>I3</td><td>O1</td></tr><tr><td>SECT6</td><td>L2</td><td>I3</td><td>O1</td></tr><tr><td>SECT7</td><td>L1</td><td>I1</td><td>O2</td></tr><tr><td>SECT8</td><td>L2</td><td>I1</td><td>O2</td></tr><tr><td>SECT9</td><td>L1</td><td>I2</td><td>O2</td></tr><tr><td>SECT10</td><td>L2</td><td>I2</td><td>O2</td></tr><tr><td>SECT11</td><td>L1</td><td>I3</td><td>O2</td></tr><tr><td>SECT12</td><td>L2</td><td>I3</td><td>O2</td></tr></table><ul style="list-style-type: none">• Wrect and Srect would involve $L < 0$ but this is not possible• Wrect and srect are covered by testing of a null variable list	WECT1	L1	I1	O1	WECT2	L2	I2	O2	WECT3	L1	I3	O1	ID	L	I	O	SECT1	L1	I1	O1	SECT2	L2	I1	O1	SECT3	L1	I2	O1	SECT4	L2	I2	O1	SECT5	L1	I3	O1	SECT6	L2	I3	O1	SECT7	L1	I1	O2	SECT8	L2	I1	O2	SECT9	L1	I2	O2	SECT10	L2	I2	O2	SECT11	L1	I3	O2	SECT12	L2	I3	O2
WECT1	L1	I1	O1																																																														
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SECT11	L1	I3	O2																																																														
SECT12	L2	I3	O2																																																														
testSublist	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes<ul style="list-style-type: none">◦ L1: $L=0$◦ L2: $L>0$• Thus, wect and sect are both covered by using an empty list and a nonempty<ul style="list-style-type: none">◦ This is already done• Wrect and Srect would involve $L < 0$ but this is not possible• Wrect and Srect are covered by testing of a null variable list																																																																
testSubListAddBegin	<ul style="list-style-type: none">• Variables:<ul style="list-style-type: none">◦ List length L• Equivalence classes																																																																

	<ul style="list-style-type: none"> ○ L1: L=0 ○ L2: L>0 ● Thus, wect and sect are both covered by using an empty list and a nonempty <ul style="list-style-type: none"> ○ This is already done ● Wrect and Srect would involve L < 0 but this is not possible ● Wrect and Srect are covered by testing of a null variable list
testSubListAddEnd	<ul style="list-style-type: none"> ● Variables: <ul style="list-style-type: none"> ○ List length L ● Equivalence classes <ul style="list-style-type: none"> ○ L1: L=0 ○ L2: L>0 ● Thus, wect and sect are both covered by using an empty list and a nonempty <ul style="list-style-type: none"> ○ This is already done ● Wrect and Srect would involve L < 0 but this is not possible ● Wrect and Srect are covered by testing of a null variable list
testSubListAddMiddle	<ul style="list-style-type: none"> ● Variables: <ul style="list-style-type: none"> ○ List length L ● Equivalence classes <ul style="list-style-type: none"> ○ L1: L=0 ○ L2: L>0 ● Thus, wect and sect are both covered by using an empty list and a nonempty <ul style="list-style-type: none"> ○ This is already done ● Wrect and Srect would involve L < 0 but this is not possible ● Wrect and Srect are covered by testing of a null variable list
testSubListRemove	<ul style="list-style-type: none"> ● Variables: <ul style="list-style-type: none"> ○ List length L ● Equivalence classes <ul style="list-style-type: none"> ○ L1: L=0 ○ L2: L>0 ● Thus, wect and sect are both covered by using an empty list and a nonempty <ul style="list-style-type: none"> ○ This is already done ● Wrect and Srect would involve L < 0 but this is not possible ● Wrect and Srect are covered by testing of a null variable list
testToArray	<ul style="list-style-type: none"> ● Variables: <ul style="list-style-type: none"> ○ List length L ● Equivalence classes <ul style="list-style-type: none"> ○ L1: L=0 ○ L2: L>0 ● Thus, wect and sect are both covered by using an empty list and a nonempty <ul style="list-style-type: none"> ○ This is already done ● Wrect and Srect would involve L < 0 but this is not possible

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Test	Boundary Value Analysis																																												
testSet	<ul style="list-style-type: none">Variables:<ul style="list-style-type: none">List length LIndex IObject OTest Set<ul style="list-style-type: none">BVL:{nom:L=0,nom:L>0}BVI:{min-:I=-1,min:I=0,min+:I=1,nom:1<I<L,max-: I = L - 2, max: I = L - 1, max+: I = L}BVO: {nom: O can be inserted, nom: O cannot be inserted}BVA (basic)<table><tr><th>ID</th><th>L</th><th>I</th><th>O</th></tr><tr><td>BVA (basic) 1</td><td>L>0</td><td>0</td><td>O can be inserted</td></tr><tr><td>BVA (basic) 2</td><td>L>0</td><td>1</td><td>O can be inserted</td></tr><tr><td>BVA (basic) 3</td><td>L>0</td><td>nom</td><td>O can be inserted</td></tr><tr><td>BVA (basic) 4</td><td>L>0</td><td>L-2</td><td>O can be inserted</td></tr><tr><td>BVA (basic) 5</td><td>L>0</td><td>L-1</td><td>O can be inserted</td></tr></table>BVA (robust)<table><tr><th>ID</th><th>L</th><th>I</th><th>O</th></tr><tr><td>BVA (robust) 1</td><td>L>0</td><td>-1</td><td>O can be inserted</td></tr><tr><td>BVA (robust) 2</td><td>L>0</td><td>0</td><td>O can be inserted</td></tr><tr><td>BVA (robust) 3</td><td>L>0</td><td>1</td><td>O can be inserted</td></tr><tr><td>BVA (robust) 4</td><td>L>0</td><td>nom</td><td>O can be inserted</td></tr></table>	ID	L	I	O	BVA (basic) 1	L>0	0	O can be inserted	BVA (basic) 2	L>0	1	O can be inserted	BVA (basic) 3	L>0	nom	O can be inserted	BVA (basic) 4	L>0	L-2	O can be inserted	BVA (basic) 5	L>0	L-1	O can be inserted	ID	L	I	O	BVA (robust) 1	L>0	-1	O can be inserted	BVA (robust) 2	L>0	0	O can be inserted	BVA (robust) 3	L>0	1	O can be inserted	BVA (robust) 4	L>0	nom	O can be inserted
ID	L	I	O																																										
BVA (basic) 1	L>0	0	O can be inserted																																										
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BVA (robust) 1	L>0	-1	O can be inserted																																										
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	<table><tr><td>BVA (robust) 5</td><td>L>0</td><td>L-2</td><td>O can be inserted</td></tr><tr><td>BVA (robust) 6</td><td>L>0</td><td>L-1</td><td>O can be inserted</td></tr><tr><td>BVA (robust) 7</td><td>L>0</td><td>L</td><td>O can be inserted</td></tr></table>	BVA (robust) 5	L>0	L-2	O can be inserted	BVA (robust) 6	L>0	L-1	O can be inserted	BVA (robust) 7	L>0	L	O can be inserted																														
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BVA (robust) 6	L>0	L-1	O can be inserted																																								
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testGet	<ul style="list-style-type: none">Variables:<ul style="list-style-type: none">List length LIndex ITest Set<ul style="list-style-type: none">BVL:{nom:L=0,nom:L>0}BVI:{min-:I=-1,min:I=0,min+:I=1,nom:1<I<L,max-: I = L - 2, max: I = L - 1, max+: I = L}BVA (basic)<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>BVA (basic) 1</td><td>L>0</td><td>0</td></tr><tr><td>BVA (basic) 2</td><td>L>0</td><td>1</td></tr><tr><td>BVA (basic) 3</td><td>L>0</td><td>nom</td></tr><tr><td>BVA (basic) 4</td><td>L>0</td><td>L-2</td></tr><tr><td>BVA (basic) 5</td><td>L > 0</td><td>L - 1</td></tr></table>BVA (robust)<table><tr><td>ID</td><td>L</td><td>I</td></tr><tr><td>BVA (robust) 1</td><td>L>0</td><td>-1</td></tr><tr><td>BVA (robust) 2</td><td>L>0</td><td>0</td></tr><tr><td>BVA (robust) 3</td><td>L>0</td><td>1</td></tr><tr><td>BVA (robust) 4</td><td>L>0</td><td>nom</td></tr><tr><td>BVA (robust) 5</td><td>L>0</td><td>L-2</td></tr><tr><td>BVA (robust) 6</td><td>L>0</td><td>L-1</td></tr><tr><td>BVA (robust) 7</td><td>L>0</td><td>L</td></tr></table>	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	L > 0	L - 1	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
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BVA (basic) 1	L>0	0																																									
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BVA (robust) 7	L>0	L																																									

Test	Decision Table																
testAdd	<div><ul style="list-style-type: none">Conditions<ul style="list-style-type: none">C1:L<=0?C2: Object can be inserted?Actions<ul style="list-style-type: none">A1: Object is insertedTable</div> <table><tr><th>Test Case ID</th><th>C1</th><th>C2</th><th>Expected Output</th></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Object inserted</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>No change</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	Object inserted	TC3	N/F	N/F	No change
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	Object inserted														
TC3	N/F	N/F	No change														
testContains	<div><ul style="list-style-type: none">Conditions<ul style="list-style-type: none">C1:L<=0?C2: Object in list?Actions<ul style="list-style-type: none">A1: Object found in listTable</div> <table><tr><th>Test Case ID</th><th>C1</th><th>C2</th><th>Expected Output</th></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>True</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>False</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	True	TC3	N/F	N/F	False
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	True														
TC3	N/F	N/F	False														
testContainsAll	<div><ul style="list-style-type: none">Conditions<ul style="list-style-type: none">C1:L<=0?C2: Object in list?Actions<ul style="list-style-type: none">A1: Object found in listTable</div> <table><tr><th>Test Case ID</th><th>C1</th><th>C2</th><th>Expected Output</th></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>True</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	True				
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	True														

	<table><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>False</td></tr></table>	TC3	N/F	N/F	False												
TC3	N/F	N/F	False														
testEquals	<ul style="list-style-type: none">• Conditions<ul style="list-style-type: none">◦ C1:L<=0?◦ C2: Objects are equal?• Actions<ul style="list-style-type: none">◦ A1: Objects are equal• Table<table><tr><td>Test Case ID</td><td>C1</td><td>C2</td><td>Expected Output</td></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>True</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>False</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	True	TC3	N/F	N/F	False
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	True														
TC3	N/F	N/F	False														
testGet	<ul style="list-style-type: none">• Conditions<ul style="list-style-type: none">◦ C1:L<=0?◦ C2: Index in range?• Actions<ul style="list-style-type: none">◦ A1: Object is gotten• Table<table><tr><td>Test Case ID</td><td>C1</td><td>C2</td><td>Expected Output</td></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Object at index</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>Error</td></tr></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
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	Object at index														
TC3	N/F	N/F	Error														
testIndexOf	<ul style="list-style-type: none">• Conditions<ul style="list-style-type: none">◦ C1:L<=0?◦ C2: Object in list?• Actions<ul style="list-style-type: none">◦ A1: Index is gotten• Table<table><tr><td>Test Case ID</td><td>C1</td><td>C2</td><td>Expected Output</td></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Index of object</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>-1</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	Index of object	TC3	N/F	N/F	-1
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	Index of object														
TC3	N/F	N/F	-1														

testRemove	<ul style="list-style-type: none">• Conditions<ul style="list-style-type: none">◦ C1:L<=0?◦ C2: Object in list?• Actions<ul style="list-style-type: none">◦ A1: Object is removed• Table<table><tr><td>Test Case ID</td><td>C1</td><td>C2</td><td>Expected Output</td></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Object removed</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>No change</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	Object removed	TC3	N/F	N/F	No change
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	Object removed														
TC3	N/F	N/F	No change														
testRemoveAll	<ul style="list-style-type: none">• Conditions<ul style="list-style-type: none">◦ C1:L<=0?◦ C2: Object in list?• Actions<ul style="list-style-type: none">◦ A1: Object is removed• Table<table><tr><td>Test Case ID</td><td>C1</td><td>C2</td><td>Expected Output</td></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Objects removed</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>No change</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	Objects removed	TC3	N/F	N/F	No change
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	Objects removed														
TC3	N/F	N/F	No change														
testRetainAll	<ul style="list-style-type: none">• Conditions<ul style="list-style-type: none">◦ C1:L<=0?◦ C2: Objects exist to be retained?• Actions<ul style="list-style-type: none">◦ A1: Objects retained• Table<table><tr><td>Test Case ID</td><td>C1</td><td>C2</td><td>Expected Output</td></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Objects retained</td></tr><tr><td>TC3</td><td>N/F</td><td>N/F</td><td>Empty List</td></tr></table>	Test Case ID	C1	C2	Expected Output	TC1	Y/T	-	-	TC2	N/F	Y/T	Objects retained	TC3	N/F	N/F	Empty List
Test Case ID	C1	C2	Expected Output														
TC1	Y/T	-	-														
TC2	N/F	Y/T	Objects retained														
TC3	N/F	N/F	Empty List														

testSet	<ul style="list-style-type: none">● Conditions<ul style="list-style-type: none">○ C1:L<=0?○ C2: Index in range?○ C3: Object can be inserted● Actions<ul style="list-style-type: none">○ A1: Object at index is set● Table<table><tr><th>Test Case ID</th><th>C1</th><th>C2</th><th>C3</th><th>Expected Output</th></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Y/T</td><td>Object at index is set</td></tr><tr><td>TC3</td><td>N/F</td><td>Y/T</td><td>N/F</td><td>Error</td></tr><tr><td>TC4</td><td>N/F</td><td>N/F</td><td>Y/T</td><td>Error</td></tr><tr><td>TC5</td><td>N/F</td><td>N/F</td><td>N/F</td><td>Error</td></tr></table>	Test Case ID	C1	C2	C3	Expected Output	TC1	Y/T	-	-	-	TC2	N/F	Y/T	Y/T	Object at index is set	TC3	N/F	Y/T	N/F	Error	TC4	N/F	N/F	Y/T	Error	TC5	N/F	N/F	N/F	Error
Test Case ID	C1	C2	C3	Expected Output																											
TC1	Y/T	-	-	-																											
TC2	N/F	Y/T	Y/T	Object at index is set																											
TC3	N/F	Y/T	N/F	Error																											
TC4	N/F	N/F	Y/T	Error																											
TC5	N/F	N/F	N/F	Error																											
testSublist	<ul style="list-style-type: none">● Conditions<ul style="list-style-type: none">○ C1:L<=0?○ C2: Start index in range?○ C3: End index in range?● Actions<ul style="list-style-type: none">○ A1: Sublist is made● Table<table><tr><th>Test Case ID</th><th>C1</th><th>C2</th><th>C3</th><th>Expected Output</th></tr><tr><td>TC1</td><td>Y/T</td><td>-</td><td>-</td><td>-</td></tr><tr><td>TC2</td><td>N/F</td><td>Y/T</td><td>Y/T</td><td>Sublist</td></tr><tr><td>TC3</td><td>N/F</td><td>Y/T</td><td>N/F</td><td>Error</td></tr><tr><td>TC4</td><td>N/F</td><td>N/F</td><td>Y/T</td><td>Error</td></tr><tr><td>TC5</td><td>N/F</td><td>N/F</td><td>N/F</td><td>Error</td></tr></table>	Test Case ID	C1	C2	C3	Expected Output	TC1	Y/T	-	-	-	TC2	N/F	Y/T	Y/T	Sublist	TC3	N/F	Y/T	N/F	Error	TC4	N/F	N/F	Y/T	Error	TC5	N/F	N/F	N/F	Error
Test Case ID	C1	C2	C3	Expected Output																											
TC1	Y/T	-	-	-																											
TC2	N/F	Y/T	Y/T	Sublist																											
TC3	N/F	Y/T	N/F	Error																											
TC4	N/F	N/F	Y/T	Error																											
TC5	N/F	N/F	N/F	Error																											