

Homework 19

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Statement	Variable Values
<code>List<Integer> list = new List1L<>();</code>	
	list = (<>,<>) //
<code>list.addRightFront(1);</code>	
	list = (<>,<1>) //
<code>list.addRightFront(0);</code>	
	list = (<>,<0,1>) //
<code>list.addRightFront(2);</code>	
	list = (<>,<2,0,1>) //
<code>list.advance();</code>	
	list = (<2>,<0,1>) //
<code>list.addRightFront(-1);</code>	
	list = (<2>,<-1,0,1>) //
<code>list.advance();</code>	
	list = (<2,-1>,<0,1>) //
<code>list.moveToFinish();</code>	
	list = (<-1>,<0,1,2>) //
<code>list.retreat();</code>	
	list = (<2,-1>,<0,1>) //
<code>int i = list.rightFront();</code>	
	list = (<2,-1>,<0,1>) // i = 0 //
<code>list.moveToStart();</code>	
	list = (<>,<2,-1,0,1>) // i = 0 //

1)

```

/**
 * Retreats the position in {@code this} by one.
 *
 * @updates this
 * @requires this.left != <>
 * @ensures <pre>
 *   this.left * this.right = #this.left * #this.right  and
 *   |this.left| = |#this.left| - 1
 * </pre>
 */
public void retreat() {
    T x = this.left.pop();
    this.right.push(x);
}

```

- 2) }
- 3) Done
- 4) Done
- 5) Done