

Pauta Control 2, pregunta 2 - CC51H: Programación Orientada a Objetos

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1. Pregunta dos.

	== 0 [1]	== 1 [2]	> 2 [3]	Error [4]
Count()	[1]	[2]	[3]	[4]
Item(0)	[4]	[1]	[2] v [3]	[4]
Item(i) ($i > 0$)	[1]	[2]	[3]	[4]
add(t)	[2]	[3]	[3]	[2]
Remove(0)	[4]	[1]	[2]	[4]
Remove(i) ($i > 0$)	[4]	[4]	[2] v [3]	[4]
Remove(t)	[4]	[1]	[1] v [2]	[4]
Contains(t)	[1]	[2]	[3]	[4]
List()	[1]	-	-	-
List(t)	-	[2]	-	-

- (a) Lista l(1); int n = count(l); $\Rightarrow n = 1$
- (b) Lista l(1); int n1 = count(l); remove(0); int n2 = count(l) $\Rightarrow n1 = 1, n2 = 0$
- (c) Lista l(1); add(2); int n = count(l); $\Rightarrow n = 2$
- (d) Lista l(1); add(2); int n1 = count(l); remove(0); int n2 = count(l); remove(0); int n3 = count(l); remove(0); int n4 = count(l); $\Rightarrow n1 = 2, n2 = 1, n3 = 0, n4 = 0$
- (e) Lista l(1); add(2); boolean b = contains("1"); $\Rightarrow b = true$

- (f) `Lista l(1); add(2); remove(1); boolean b = contains("1");` $\Rightarrow b = false$
- (g) `Lista l(1); add(2); remove(1); boolean b1 = contains("1"); boolean b2 = contains("2");` $\Rightarrow b1 = false \ b2 = true$
- (h) `Lista l(1); add(2); remove("1"); boolean b1 = contains("1"); boolean b = contains("2");` $\Rightarrow b1 = false \ b2 = true$
- (i) `Lista l(1); int n1 = l.count(0);` $\Rightarrow n1 = 1$
- (j) `Lista l(); int n1 = l.count();` $\Rightarrow n1 = 0$

```
public class testLista extends TestCase
{
    public void testAdd()
    {
        Lista l = new Lista("1");
        l.add("2");
        l.add("3");

        assert (l.contains("1")&& l.contains("2")&& l.contains("3"));
    }

    public void testCount()
    {
        Lista l0 = new Lista("1");
        Lista l1 = new Lista("1");
        Lista l2 = new Lista("1");

        l0.remove(0);
        l1.add("2");

        assert (l0.count()==0)&&(l1.count()==2);
    }

    public void testRemove()
    {
        Lista l0 = new Lista("1");
```

```

        Lista l1 = new Lista("1");
        Lista l2 = new Lista("1");

        l0.remove(0);
        l1.add("2");
        l1.add("3");
        l1.remove(1);

        assert (l0.count()==0)&&(l1.count()==2);
    }

    public void testContains()
    {
        Lista l1 = new Lista("1");
        l1.add("2");

        assert (l1.contains("1")&&!l1.contains(5));
    }
}

```