

Garbage Collection

What is “garbage”?

```
6      LinkedList<Dillo> allDillos = new LinkedList<Dillo>();
7      allDillos.add(new Dillo(10, true));
8      new Dillo(15, false);
9      Dillo littleD = new Dillo(5, false);
10     allDillos.add(littleD);
11     allDillos.remove(0); // remove item at index 0
```

What Generates Garbage?

```
3  object Main extends App {  
4      // compute the average of positive numbers in a list  
5      val temps = List(67, 45, 0, 66, -21, 50)  
6      val posTemps = temps.filter(t => t > 0)  
7      val avgTemp = posTemps.sum / posTemps.length  
8      println(avgTemp)  
9  }
```

```
11 object Main2 extends App {  
12     // same computation as Main but organized separately  
13     val temps = List(67, 45, 0, 66, -21, 50)  
14  
15     def avgPos(data: List[Int]) = {  
16         val posTemps = temps.filter(t => t > 0)  
17         posTemps.sum / posTemps.length  
18     }  
19     val avgTemp = avgPos(temps);  
20 }
```

