

```
1 package club.westcs.GridworldRYoung;
2
3 import java.awt.Color;
4 import java.util.ArrayList;
5 import java.util.Random;
6
7 import info.gridworld.actor.Critter;
8 import info.gridworld.grid.Location;
9
10 public class MultiCritter extends Critter{
11
12     private Random rand;
13
14     //constructor
15     public MultiCritter() {
16         rand = new Random();
17         Color r = new Color(rand.nextInt(255),rand.nextInt(255),rand.nextInt(255));
18         setColor(r);
19     }
20
21     public void act()
22     {
23         if (getGrid() == null)
24             return;
25         ArrayList<Location> byMe = getGrid().getEmptyAdjacentLocations(getLocation());
26         multiMe(byMe);
27     }
28
29     private void multiMe(ArrayList<Location> byMe) {
30         for(Location loc: byMe) {
31             if(rand.nextBoolean()) {
32                 new MultiCritter().putSelfInGrid(getGrid(), loc);
33             }
34         }
35     }
36 }
37 }
38 }
```