Evgen959 / **Advanced_Backend**   Public

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Advanced_Backend / **Lesen 025** / **code** / **hw_na_les022 Tamagochi** / **src** / **Plant.java** ⧉   ···

Evgen959 newLes26   4 minutes ago   •••   ⟲

66 lines (55 loc) · 1.53 KB

Code	Blame		Raw ⧉ ⬇ ✎ ▾ <>

```java
 1      import java.util.Random;
 2
 3      public abstract class Plant {
 4          private static int counter = 0;
 5          private int id;
 6          private String title;
 7          private int height = 0;
 8          private int season = 0;
 9          private Random random = new Random();
10
11          public Plant(String title, int height) {
12              id = ++ counter;
13              this.title = title; // береться из класса Дерево
14              this.height = height; // береться из класса Дерево
15          }
16
17          public int getSeason() {
18              return season;
19          }
20
21          public void changeSeason(){
22              if (season < 3){
23                  season ++;
24              } else {
25                  season = 0;
26              }
27              grow();
28          }
29
30          public String getSeasonTitle(){
31              switch (season){
32                  case 0: return "spring";
33                  case 1: return "summer";
34                  case 2: return "autumn";
35                  case 3: return "winter";
36                  default: return "";
```

```java
37             }
38         }
39
40         public int getHeight() {
41             return height;
42         }
43
44         public void setHeight(int height) {
45             this.height = height;
46         }
47
48         public abstract int getMaxGrowBySeason();
49         public abstract int getMaxHeight();
50
51  ∨      public void grow(){
52             height+= getRndGrowBySeason();
53             if (height>getMaxHeight()){
54                 height = getMaxHeight();
55             }
56         }
57
58         public int getRndGrowBySeason(){
59             return random.nextInt(getMaxGrowBySeason()+1);
60         }
61
62         @Override
63         public String toString() {
64             return "Plant " + id + " " + title + "(" + height + ")" + "     " + getSeasonTitle
65         }
66     }
```