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Test2.java

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```
1  public interface Animal {
2
3      public boolean feed(String food);
4
5      public int weight();
6
7  }
8
9  public class Carp implements Animal {
10
11     private int weight;
12
13     public Carp() {
14         weight = 1;
15     }
16
17     public boolean feed(String food) {
18         weight *= 2;
19
20         public int weight() { return weight; }
21
22     }
23
24  public class Lion implements Animal {
25
26     private int weight;
27
28     public Lion() {
29         weight = 20;
30     }
31
32     public boolean feed(String food) { return false; }
33
34     public boolean feed(Animal prey) {
35         if (prey instanceof Lion)
36             return false;
37         else {
38             weight += prey.weight();
39             return true;
40         }
41
42     public int weight() {
43         return weight;
44     }
45
46  }
47
48  public class Parrot implements Animal {
49
50      public boolean feed(String food) {
51          if (food.equals("worms"))
52              return true;
53          else
54              return false;
55      }
56
57      public int weight() { return 1; }
58  }
```

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Test2.java

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