

GoodBob:

BobStrategy.java

```
1  ⊞ ...5 lines
6  package strategy2;
7
8  ⊞ /**...4 lines */
9  public interface BobStrategy {
13
14      double weighted(double x, double y);
15
16  }
17
18  class weighted1 implements BobStrategy{
19
20      public double weighted(double x, double y) {
21          return x*23 + .01*x*y + y;
22      }
23  }
24
25  class weighted2 implements BobStrategy{
26
27      public double weighted(double x, double y) {
28          return x*x*.04 + y;
29      }
30  }
31  class weighted3 implements BobStrategy{
32
33      public double weighted(double x, double y) {
34          return Math.pow(x,y)/14;
35      }
36  }
```

GoodBob.java

```
1  ⊞ ...5 lines
6  package strategy2;
7
8  ⊞ /**...4 lines */
12 public class GoodBob {
13     private BobStrategy goodbob;
14
15     public GoodBob(BobStrategy bob){
16         this.goodbob = bob;
17     }
18
19     public void setStrategy (BobStrategy bob){
20         this.goodbob = bob;
21     }
22
23     public double runGoodBob (double x, double y){
24         return goodbob.weighted(x,y);
25     }
26
27 }
```

## GoodBobTest.java

```
1  package strategy2;
2  import org.junit.Test;
3  public class GoodBobTest {
4
5      public GoodBobTest() {
6      }
7
8      @Test
9      public void goodbobtest() {
10         RegTest.Utility.init();
11         RegTest.Utility.redirectStdOut("GoodBobOutput.txt");
12
13         GoodBob b = new GoodBob(new weighted1());
14         System.out.println(b.runGoodBob(4, 5));
15         System.out.println(b.runGoodBob(3, 5));
16         b.setStrategy(new weighted2());
17         System.out.println(b.runGoodBob(4, 5));
18         System.out.println(b.runGoodBob(3, 5));
19         b.setStrategy(new weighted3());
20         System.out.println(b.runGoodBob(4, 5));
21         System.out.println(b.runGoodBob(3, 5));
22
23         RegTest.Utility.validate("GoodBobOutput.txt",
24             "Correct/BadBobTest.txt", false);
25     }
26
27 }
```

GoodDonald:

DonaldStrategy.java

```
package strategy2;

enum DonaldStrategy{
    FIRST{
        public void run(){
            System.out.println("First");
        }
    },

    SECOND {
        public void run(){
            System.out.println("Second");
        }
    },

    THIRD {
        public void run(){
            System.out.println("Third");
        }
    };
    abstract public void run();
}
```

GoodDonald.java

```
1  ...5 lines
6  package strategy2;
7
8  /**...4 lines */
12 public class GoodDonald {
13     private DonaldStrategy gooddonald;
14
15     public GoodDonald(DonaldStrategy gd){
16         this.gooddonald = gd;
17     }
18
19     public void setStrategy(DonaldStrategy gd){
20         this.gooddonald = gd;
21     }
22
23     public void runGoodDonald(){
24         gooddonald.run();
25     }
26 }
27
```

## GoodDonaldTest.java

```
6 package strategy2;
7 import org.junit.Test;
8 /**
9  *
10  * @author brittkvanvig
11  */
12 public class GoodDonaldTest {
13
14     public GoodDonaldTest() {
15     }
16
17     @Test
18     public void gooddonaldtest() {
19         RegTest.Utility.init();
20         RegTest.Utility.redirectStdOut("GoodDonaldOutput.txt");
21
22         GoodDonald d = new GoodDonald(DonaldStrategy.FIRST);
23         d.runGoodDonald();
24         d.setStrategy(DonaldStrategy.SECOND);
25         d.runGoodDonald();
26         d.runGoodDonald();
27         d.setStrategy(DonaldStrategy.THIRD);
28         d.runGoodDonald();
29         d.runGoodDonald();
30         d.runGoodDonald();
31
32
33         RegTest.Utility.validate("GoodDonaldOutput.txt",
34             "Correct/BadDonaldTest.txt", false);
35     }
36
37 }
38
```