1 **import** java.awt.\*;

2

3 **public** **class** SailBoatV3 **extends** SailBoatV2

4 {

5 **private static** **int** pricePerSquareFoot = 2;

6 **private** **int** sailArea; **// additional data members**

7

8 **public** SailBoatV3(**int** x, **int** y, **int** length,

9 Color color, **int** sailArea)

10 {

11 **super**(x, y, length, color);

12 **this**.sailArea = sailArea;

13 }

14

15 @Override

16 **public** **int** calculatePrice() **//invokes the method it overrides**

17 {

18 **int** hullPrice = **super**.calculatePrice(); **//invokes RowBoat's method**

19 **return** hullPrice + sailArea \* pricePerSquareFoot;

20 }

21

22 @Override

23 **public** **void** show(Graphics g)

24 {

25 **int**[] xSail = {getX() + getLength()/2, getX(),

26 getX() + getLength()/2,};

27 **int**[] ySail = {getY() - getLength()/2, getY() - getLength()/8,

28 getY() - getLength()/8};

29

30 g.setColor(Color.WHITE); **//draw the sail**

31 g.fillPolygon(xSail, ySail, xSail.length);

32 **super**.show(g);

33 }

34 }

**Figure 8.14 The class SailBoatV3.**