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2// Example 5-8: Square following edge, uses a 🛮 state 🗷 variable
4 \text{ int } x = 0; // x \text{ location of square}
5 int y = 0; // y location of square
7 int speed = 5; // speed of square
9 // A variable to keep track of the square⊠s "state."
10 // Depending on the value of its state, it will either move ri
11 int state = 0;
12
13 void setup() {
    size(640,360);
14
15 }
16
17 void draw() {
    background(255);
18
19
    // Display the square
20
    stroke(0);
21
    fill(y,0,0);
22
    rect(x, y, 9, 9);
23
24
    // If the state is 0, move to the right.
25
    if (state == 0) {
26
      x = x + speed;
27
      // If, while the state is 0, it reaches the right side of
28
      // Repeat this same logic for all states!?
29
      if (x > width-10) {
30
        x = width-10;
31
        state = 1;
32
      }
33
    } else if (state == 1) {
      y = y + speed;
      if (y > height-10) {
        y = height-10;
        state = 2;
    } else if (state == 2) {
```

```
x = x - speed;
      if (x < 0) {
       x = 0;
       state = 3;
    } else if (state == 3) {
      y = y - speed;
      if (y < 0) {
        y = 0;
        state=0;
      }
    }
53 }
```