```
var player;
    var PLAYER_SIZE = 30;
2
    var x = 8;
3
    var y = 0;
    var leftWall;
    var rightWall;
6
    var runs = -1;
7
    var maxRuns = 5;
8
9
    function start(){
10
        player = new Rectangle(PLAYER_SIZE, PLAYER_SIZE);
11
         player.setColor(Color.green);
12
         player.setPosition(50, 50);
13
         add(player);
14
         rectColor(5, getHeight(), Color.red, 0, 0);
15
         rectColor(5, getHeight(), Color.red, getWidth()-5, 0);
16
         leftWall = getElementAt(0, 0);
17
         rightWall = getElementAt(getWidth(), 0);
18
19
         obs();
         setTimer(move, 50);
20
    }
21
22
    function move(){
23
         keyDownMethod(direction);
24
25
         var elemLeft = getElementAt(player.getX() - 1, player.getY() + PLAYER_SIZE/2);
         var elemRight = getElementAt(player.getX() + PLAYER_SIZE + 1, player.getY() + PLAYER_SIZE/2);
26
         var elemBottom = getElementAt(player.getX() + PLAYER_SIZE/2, player.getY() + PLAYER_SIZE);
27
         if(elemLeft == null && elemRight == null){
28
29
             player.move(x, y);
         }else{
30
             if(elemLeft == leftWall || elemRight == rightWall){
31
32
                 gameOver(false);
33
34
35
         gravity();
36
         if(player.getX() > getWidth()){
             player.setPosition(getWidth() - PLAYER_SIZE - 1, player.getY());
37
38
             x = 0;
39
         if(player.getX() < 0){</pre>
40
             player.setPosition(0 + PLAYER_SIZE + 1, player.getY());
41
42
             x = 0;
43
         if(player.getY() + PLAYER_SIZE >= getHeight()){
44
             player.setPosition(player.getX(), 0);
45
             for(var i = 1; i <= 4; i++){
46
47
                 var elemLeft = getElementAt(0, i*100);
                 remove(elemLeft);
                 var elemRight = getElementAt(getWidth(), i*100);
49
                 remove(elemRight);
50
51
             obs();
52
53
```

```
54
     }
55
     function gravity(){
56
57
         var elemLeft = getElementAt(player.getX(), player.getY() + PLAYER_SIZE+1);
         var elemRight = getElementAt(player.getX() + PLAYER_SIZE, player.getY() + PLAYER_SIZE+1);
58
59
         if(elemLeft == null && elemRight == null){
             player.move(0, 10);
61
         }
62
     }
63
64
     function direction(e){
65
         if(e.keyCode == Keyboard.LEFT){
             x = -8;
66
67
         if(e.keyCode == Keyboard.RIGHT){
68
69
             x = 8;
70
71
     }
72
73
     function obs(){
74
         for(var i = 1; i <= 4; i++){
75
             var leftLength = Randomizer.nextInt(0, getWidth() - PLAYER_SIZE*2);
             var leftWall = new Rectangle(leftLength, 5);
76
77
             var rightLength = getWidth() - (leftLength + PLAYER_SIZE*2);
78
             var rightWall = new Rectangle(rightLength, 5);
79
             rect(leftLength, 5, 0, i*100);
80
             rect(rightLength, 5, leftLength + PLAYER_SIZE*2, i*100);
81
         }
82
         runs++;
83
         if(runs == maxRuns){
84
             gameOver(true);
85
         }
86
87
88
     function gameOver(beaten){
89
         if(beaten == true){
90
             stopTimer(move);
91
             rectColor(getWidth(), getHeight(), Color.green, 0, 0);
92
             text("You Won!", "50pt Arial", getWidth()/2 - 150, getHeight()/2, Color.white);
93
         }else{
94
             stopTimer(move);
             rect(getWidth(), getHeight(), 0, 0);
             text("You Lose!", "50pt Arial", getWidth()/2 - 150, getHeight()/2, Color.white);
96
97
         }
98
99
     function text(label, font, x, y, color){
         var txt = new Text(label, font);
100
101
         txt.setPosition(x, y);
         txt.setColor(color);
102
         add(txt);
103
104
     }
105
     function rectColor(length, width, color, x, y){
         var rect = new Rectangle(length, width);
106
107
         rect.setColor(color);
108
         rect.setPosition(x, y);
109
         add(rect);
```

```
110  }
111  function rect(length, width, x, y){
112    var rect = new Rectangle(length, width);
113    rect.setPosition(x, y);
114    add(rect);
115  }
```

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