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25 lines (18 sloc) | 622 Bytes

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <meta charset="utf-8">
5    <title>Jasmine Spec Runner v2.8.0</title>
6
7    <link rel="shortcut icon" type="image/png" href="lib/jasmine-2.8.0/jasmine_favicon.png">
8    <link rel="stylesheet" href="lib/jasmine-2.8.0/jasmine.css">
9
10   <script src="lib/jasmine-2.8.0/jasmine.js"></script>
11   <script src="lib/jasmine-2.8.0/jasmine-html.js"></script>
12   <script src="lib/jasmine-2.8.0/boot.js"></script>
13
14   <!-- include source files here... -->
15   <script src="src/Bowling.js"></script>
16
17   <!-- include spec files here... -->
18   <script src="spec/BowlingSpec.js"></script>
19
20 </head>
21
22 <body>
23 </body>
24 </html>
```

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93 lines (82 sloc) | 2.07 KB

1

describe("Scorecard", function() {

2

3

var scorecard;

4

5

beforeEach (function(){

6

scorecard = new BowlingScorecard();

7

});

8

9

it('user can roll all ones', function(){

10

for (var i = 0; i < 20; i++) {

11

scorecard.roll(1);

12

}

13

expect(scorecard.total).toEqual(20);

14

});

15

16

it('user can roll all zeros - Gutter Game', function(){

17

for (var i = 0; i < 20; i++) {

18

scorecard.roll(0);

19

}

20

expect(scorecard.total).toEqual(0);

21

});

22

23

it('user can roll a spare', function(){

24

scorecard.roll(6);

25

scorecard.roll(4);

26

scorecard.roll(2);

27

for (var i = 0; i < 17; i++) {

28

scorecard.roll(0);

29

}

30

expect(scorecard.total).toEqual(14);

31

});

32

33

it('user can roll a strike', function(){

34

scorecard.roll(10);

35

scorecard.roll(4);

36

scorecard.roll(2);

37

for (var i = 0; i < 16; i++) {

38

scorecard.roll(0);

39

}

40

expect(scorecard.total).toEqual(22);

41

});

42

43

it('user can roll multiple strikes in a row', function(){

44

for (var i = 0; i < 2; i++) {

45

scorecard.roll(10);

46

}

47

scorecard.roll(2);

48

scorecard.roll(3);

49

for (i = 0; i < 14; i++) {

50

scorecard.roll(0);

51

}

52

expect(scorecard.total).toEqual(42);

53

});

54

55

it('user can roll 3 strikes in a row', function(){

56

for (var i = 0; i < 3; i++) {

57

scorecard.roll(10);

58

}

59

scorecard.roll(2);

60

scorecard.roll(3);

61

for (i = 0; i < 12; i++) {

62

scorecard.roll(0);

63

}

64

expect(scorecard.total).toEqual(72);

65

});

66

67

it('user can roll a perfect game', function(){

68

for (var i = 0; i < 12; i++) {

69

scorecard.roll(10);

70

}

71

expect(scorecard.total).toEqual(300);

72

});

73

74

it('user can roll a spare on last frame', function(){

75

for (var i = 0; i < 18; i++) {

76

scorecard.roll(0);

77

}

78

scorecard.roll(6);

79

scorecard.roll(4);

80

scorecard.roll(2);

81

expect(scorecard.total).toEqual(12);

82

});

83

it('user can roll a strike on last frame', function(){

84

for (var i = 0; i < 18; i++) {

85

scorecard.roll(0);

86

}

87

scorecard.roll(10);

88

scorecard.roll(4);

89

scorecard.roll(2);

90

expect(scorecard.total).toEqual(16);

91

});

92

});

Tree: b86c4e9050 ▾

bowling-challenge / public / src / Bowling.js

Find file

Copy path


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101 lines (92 sloc) | 2.6 KB

```
1 function BowlingScorecard() {
2   this.ZERO = 0;
3   this.total = this.ZERO;
4   this.firstRoll = null;
5   this.secondRoll = null;
6   this.rollNumber = this.ZERO;
7   this.frameNumber = this.ZERO;
8   this.rolls = [];
9   this.strikes = [];
10  this.hasSpareBeenRolled = false;
11  this.hasStrikeBeenRolled = false;
12  this.printTotal = [0,0,0,0,0,0,0,0,0,0];
13 }
14
15 BowlingScorecard.prototype.roll = function(pins) {
16   this.rollNumber += 1;
17   this.rolls.push(pins);
18   this.frame(pins);
19 };
20
21 BowlingScorecard.prototype.frame = function(roll) {
22   if (this.firstRoll == null) {
23     this.frameNumber += 1;
24     this.firstRoll = roll;
25     this.addSpareBonus(roll);
26     this.isStrike(roll);
27   } else {
28     this.secondRoll = roll;
29   }
30   this.calculateFrame(roll);
31 };
32
33 BowlingScorecard.prototype.calculateFrame = function(roll) {
34   if (this.hasStrikeBeenRolled == true) {
35     this.secondRoll = 0;
36   }
37   if (this.frameNumber == 12 && this.rolls[19] == 10 ) {
38     this.printTotal[9] += (roll);
39   }
40   if ((this.firstRoll + this.secondRoll) > 10 ) {
41     this.second = null;
42   } else {
43     if (this.firstRoll != null && this.secondRoll != null) {
44       var frameTotal = (this.firstRoll + this.secondRoll);
45       var frameNumber = this.frameNumber;
46       if (this.frameNumber < 11) {
47         this.total += (frameTotal);
48         this.printTotal[frameNumber - 1] += (frameTotal);
49       }
50       this.isSpare(frameTotal);
51       this.firstRoll = null;
52       this.secondRoll = null;
53     }
54     this.calculateStrikeBonus(roll);
55     this.hasStrikeBeenRolled = false;
56   }
57 };
58
59 BowlingScorecard.prototype.isSpare = function(frameTotal) {
60   if (frameTotal == 10 && this.hasStrikeBeenRolled == false) {
61     this.hasSpareBeenRolled = true;
62   }
63 };
64
65 BowlingScorecard.prototype.addSpareBonus = function(roll) {
66   if (this.hasSpareBeenRolled == true) {
67     this.total += roll;
68     this.printTotal[this.frameNumber - 2] += (roll);
69     this.hasSpareBeenRolled = false;
70   }
71 };
72
73 BowlingScorecard.prototype.isStrike = function(roll) {
74   if (roll == 10) {
75     this.strikes.push(this.rollNumber);
76     this.hasStrikeBeenRolled = true;
77   }
78 };
79
80 BowlingScorecard.prototype.calculateStrikeBonus = function(roll) {
81   var currentRollNumber = this.rollNumber;
82   var bonuses = 0;
83   var currentFrame = this.frameNumber;
84   this.strikes.forEach(function(strikeRoll) {
85     if ((strikeRoll + 1) == currentRollNumber) {
86       bonuses += roll;
87     }
88     if (currentFrame < 12) {
89       if ((strikeRoll + 2) == currentRollNumber) {
90         bonuses += roll;
91       }
92     }
93   });
94   this.total += bonuses;
95   this.printTotal[this.frameNumber - 2] += (bonuses);
96 };
97
98 BowlingScorecard.prototype.printTotal = function() {
99   return this.printTotal;
100 };
```


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147 lines (132 sloc) | 5.23 KB

```
1 <!doctype html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <title>Bowling Scorecard</title>
6   <style>
7     #buttons {
8       font-family: "Trebuchet MS", Arial, Helvetica, sans-serif;
9       border-collapse: collapse;
10      width: 70%;
11    }
12    .scoreButton {
13      background-color: #b5d1ff;
14      border: none;
15      padding: 10px 20px;
16      text-align: center;
17      text-decoration: none;
18      font-size: 14px;
19    }
20
21    #scorecard {
22      font-family: "Trebuchet MS", Arial, Helvetica, sans-serif;
23      border-collapse: collapse;
24      width: 100%;
25    }
26
27    #scorecard td, #scorecard th {
28      border: 1px solid #DDD;
29      padding: 8px;
30      height: 20px;
31    }
32
33    .scoreBox {
34      border: 1px solid #ddd;
35      background-color: #f2f2f2;
36    }
37
38    .fillerBox {
39      border: 0px;
40    }
41
42    .titleRow {
43      background-color: #0061ff;
44      color: #FFF;
45    }
46
47    #scorecard th {
48      border: 1px solid #ddd;
49      padding-top: 12px;
50      padding-bottom: 12px;
51      text-align: left;
52      background-color: #4CAF50;
53      color: white;
54    }
55  </style>
56 </head>
57
58 <body>
59   <br>
60
61   <table id=scorecard border=1 height=50% width=50%>
62     <tr class=titleRow >
63       <td colspan=3 align=center> 1 </td><td colspan=3 align=center> 2 </td>
64       <td colspan=3 align=center> 3 </td><td colspan=3 align=center> 4 </td>
65       <td colspan=3 align=center> 5 </td><td colspan=3 align=center> 6 </td>
66       <td colspan=3 align=center> 7 </td><td colspan=3 align=center> 8 </td>
67       <td colspan=3 align=center> 9 </td><td colspan=3 align=center> 10 </td>
68       <td colspan=3 align=center> Total </td>
69     </tr>
70     <tr>
71       <td class=fillerBox align=center></td>
72       <td class=scoreBox align=center><span id=1></span></td>
73       <td class=scoreBox align=center><span id=2></span></td>
74       <td class=fillerBox align=center></td>
75       <td class=scoreBox align=center><span id=3></span></td>
76       <td class=scoreBox align=center><span id=4></span></td>
77       <td class=fillerBox align=center></td>
78       <td class=scoreBox align=center><span id=5></span></td>
79       <td class=scoreBox align=center><span id=6></span></td>
80       <td class=fillerBox align=center></td>
81       <td class=scoreBox align=center><span id=7></span></td>
82       <td class=scoreBox align=center><span id=8></span></td>
83       <td class=fillerBox align=center></td>
84       <td class=scoreBox align=center><span id=9></span></td>
85       <td class=scoreBox align=center><span id=10></span></td>
86       <td class=fillerBox align=center></td>
87       <td class=scoreBox align=center><span id=11></span></td>
88       <td class=scoreBox align=center><span id=12></span></td>
89       <td class=fillerBox align=center></td>
90       <td class=scoreBox align=center><span id=13></span></td>
91       <td class=scoreBox align=center><span id=14></span></td>
92       <td class=fillerBox align=center></td>
93       <td class=scoreBox align=center><span id=15></span></td>
94       <td class=scoreBox align=center><span id=16></span></td>
95       <td class=fillerBox align=center></td>
96       <td class=scoreBox align=center><span id=17></span></td>
97       <td class=scoreBox align=center><span id=18></span></td>
98       <td class=scoreBox align=center><span id=19></span></td>
99       <td class=scoreBox align=center><span id=20></span></td>
100      <td class=scoreBox align=center><span id=21></span></td>
101      <td colspan=3 class=fillerBox align=center></td>
102    </tr>
103
104    <tr>
105      <td colspan=3 align=center><span id=total1></span></td>
106      <td colspan=3 align=center><span id=total2></span></td>
107      <td colspan=3 align=center><span id=total3></span></td>
108      <td colspan=3 align=center><span id=total4></span></td>
109      <td colspan=3 align=center><span id=total5></span></td>
110      <td colspan=3 align=center><span id=total6></span></td>
111      <td colspan=3 align=center><span id=total7></span></td>
112      <td colspan=3 align=center><span id=total8></span></td>
113      <td colspan=3 align=center><span id=total9></span></td>
114      <td colspan=3 align=center><span id=total10></span></td>
115      <td colspan=3 align=center><span id=totalTotal></span></td>
116    </tr>
117
118  </table>
119
120  <br>
121
122  <table id=buttons align='center' height=50% width=50%>
123    <tr>
124      <td align=center><button class=scoreButton id='button0'>0</button></td>
125      <td align=center><button class=scoreButton id='button1'>1</button></td>
126      <td align=center><button class=scoreButton id='button2'>2</button></td>
127      <td align=center><button class=scoreButton id='button3'>3</button></td>
128      <td align=center><button class=scoreButton id='button4'>4</button></td>
129      <td align=center><button class=scoreButton id='button5'>5</button></td>
130      <td align=center><button class=scoreButton id='button6'>6</button></td>
131      <td align=center><button class=scoreButton id='button7'>7</button></td>
132      <td align=center><button class=scoreButton id='button8'>8</button></td>
133      <td align=center><button class=scoreButton id='button9'>9</button></td>
134      <td align=center><button class=scoreButton id='button10'>Strike</button></td>
135    </tr>
136  </table>
137
138  <script src='../src/Bowling.js' ></script>
139  <script
140    src="https://code.jquery.com/jquery-3.2.1.min.js"
141    integrity="sha256-hwg4gsxgFZh0sEEamd0YGBf13FyQuiTwlAQgxVSNgt4="
142    crossorigin="anonymous"></script>
143  <script src="jQuery.js"></script>
144
145 </body>
146 </html>
```