







**THE BROWSER RUNTIME**



```
function foo() {  
  
    let i = 0;  
  
    while (true) {  
  
        i++;  
  
    }  
  
}  
  
foo ();
```

i

=

0

i

=

1



**i = 2**

**i = 147**





**R**

**U**

**N**

Run

**Stop**

Stop



Stop

# EVENT QUEUE

---

Run

## THE BROWSER RUNTIME

Run

Stop

```
function foo() {  
  
  let i = 0;  
  
  while (true) {  
  
    i++;  
  
  }  
  
}  
  
foo ();
```



i = 147



i = 2

i = 1

i = 0

## EVENT QUEUE

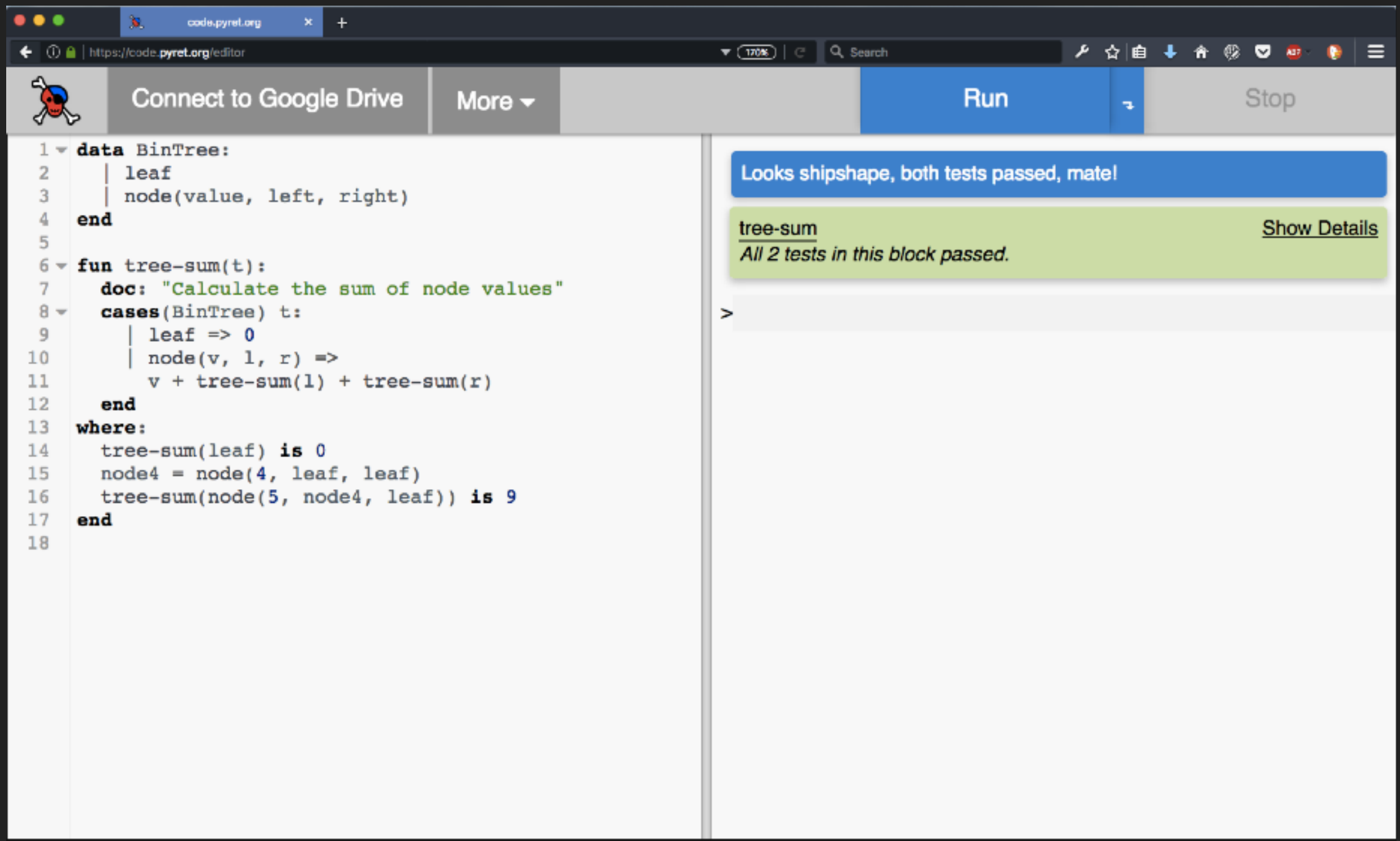
---

Stop

Stop

Run

# A PROGRAMMING ENVIRONMENT THAT DOESN'T GIVE UP



The screenshot displays the Pyret programming environment interface. The top navigation bar includes a skull icon, a "Connect to Google Drive" button, a "More" dropdown, and "Run" and "Stop" buttons. The code editor on the left contains the following code:

```
1 data BinTree:
2   | leaf
3   | node(value, left, right)
4 end
5
6 fun tree-sum(t):
7   doc: "Calculate the sum of node values"
8   cases(BinTree) t:
9     | leaf => 0
10    | node(v, l, r) =>
11      v + tree-sum(l) + tree-sum(r)
12  end
13 where:
14   tree-sum(leaf) is 0
15   node4 = node(4, leaf, leaf)
16   tree-sum(node(5, node4, leaf)) is 9
17 end
18
```

The right panel shows test results. A blue message box states: "Looks shipshape, both tests passed, mate!". Below it, a green box for the `tree-sum` block indicates: "All 2 tests in this block passed." with a "Show Details" link. A prompt character ">" is visible at the bottom of the right panel.