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```
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
```

Looks shipshape, both tests passed, mate!

tree-sum

Show Details

All 2 tests in this block passed.

>


RYRRT

AND PROGRAMMING ENVIRONMENT THAT DOESN'T GIVE UP

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Running...

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1

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2

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```

Program stopped by user

>|





# A PROGRAMMING ENVIRONMENT THAT DOESN'T GIVE UP

The screenshot displays the Pyret programming environment interface. The top bar includes a browser address bar with `code.pyret.org` and a search bar. Below the browser bar is a toolbar with buttons for "Connect to Google Drive", "More", "Run", and "Stop". The main area is divided into two panels. The left panel is a code editor showing a Scala-like program for calculating the sum of a binary tree. The right panel is a console showing the output of the program.

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```

The console on the right shows the prompt `>|` and a message box that says "Program stopped by user".

# PYRET COMPILER PIPELINE

