## **Binary Tree Problem**

Implement a function to check if a binary tree is balanced. For the purposes of this question, a balanced tree is defined to be a tree such that the heights of the two subtrees of any node never differ by more than one.

## Solution

This solution is intended to run on Ruby 2.4.3 but should run on 2.3 and up. It takes advantage of the safe navigation operator. The solution for the implements the BinaryTree and BinaryTreeNode classes in binary\_tree.rb. The node class has a method called height that recursively calculated its own height from its children nodes. This height method is used for calculating whether or not a node is balanced in the balanced? method.

## **Running the Examples and Unit Tests**

run example.rb contains a couple of examples of the tree. You can run it with:

ruby run\_example.rb

test binary tree.rb contains unit tests for the tree class. You can run it with:

ruby test binary tree.rb