Good morning! Here's your coding interview problem for today.

This problem was asked by Google.

A unival tree (which stands for "universal value") is a tree where all nodes under it have the same value.

Given the root to a binary tree, count the number of unival subtrees.

For example, the following tree has 5 unival subtrees:

0

/ \

1 0

/ \

1 0

/ \

1 1