9. (8 points) Temmie Flakes (It's just torn up pieces of construction paper.)
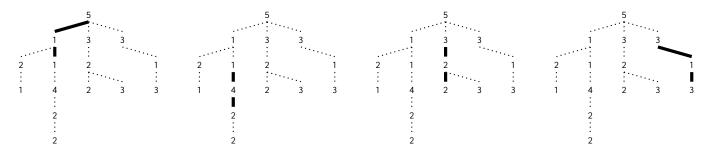
Implement `count_ways`, which takes a tree `t` and an integer `total` and returns the number of ways any top-to-bottom sequence of consecutive nodes can sum to `total`. Shown below with bolded edges are the four ways counted during `count_ways(t1, 7)`. The tree data abstraction is on the previous page.


```
def count_ways(t, total):
    """Return the number of ways that any sequence of consecutive nodes in a root-to-leaf path
    can sum to total.

    >>> t1 = tree(5, [tree(1, [tree(2, [tree(1)]),
    ...                        tree(1, [tree(4, [tree(2, [tree(2)])])])]),
    ...               tree(3, [tree(2, [tree(2),
    ...                                 tree(3)])]),
    ...               tree(3, [tree(1, [tree(3)])])])
    >>> count_ways(t1, 7)
    4
    >>> count_ways(t1, 4)
    6
    >>> t2 = tree(2, [tree(-10, [tree(12)]),
    ...               tree(1, [tree(1),
    ...                        tree(-1, [tree(2)])])])
    >>> count_ways(t2, 2)
    6
    >>> count_ways(t2, 4)
    3
    """

    def paths(_____):

        ways = 0

        if _____:

            _____

        ways += sum(_____)

        if _____:

            _____

        return ways

    return _____
```