Balanced Brackets

Rules

1. Strictly practice TDD
   a. Follow the: Red-Green-Refactor cycle
   b. Stop and read your code before refactoring.
2. Practice wishful coding
   a. Do not write any production code until you have a failing test.
   b. *Or compilation failures to drive the need to implement the method.*

The Kata

Take an input string with X opening brackets [and Y closing brackets], in a random order.

Determine if the generated string of brackets is balanced, that is it consists of pairs of opening/closing brackets in the correct order with no matched opening and closing pairs.

The kata has been structured to be simple, yet loosely guided. You will need to make decisions just like you were writing code for production.

The examples are not meant to guide your implementation, they are there merely to give examples.

Do not worry about input other than brackets and empty string.

Examples

(empty) OK

[] OK

[][] OK

[[]] OK

[[][]] OK

][FAIL

][][FAIL

[][][FAIL

Hint

Start off returning string.empty as the default value. This will allow you properly work the red-green-refactor cycle.