

The Design Recipe

For the word problems below, assume you have `animalA` and `animalB` defined in your code.

Directions: Define a function called `kilos`, which consumes a Row of the animals table and divides the pounds column by 2.2 to *compute* the animal's weight in kilograms.

Contract and Purpose Statement

Every contract has three parts...

kilos :: (r :: Row) -> Number
function name domain range

Consumes an animal, and computes the animal's weight in kilos

what does the function do?

Examples

Write some examples, then circle and label what changes...

examples:

 kilos ("animalA") is animalA["pounds"] / 2.2
function name input(s) what the function produces

 kilos ("animalB") is animalB["pounds"] / 2.2
function name input(s) what the function produces

end

Definition

Write the definition, giving variable names to all your input values...

fun kilos (r) :
function name variable(s)

 r["pounds"] / 2.2
what the function does with those variable(s)

end

Directions: Define a function called `smart-dot`, which consumes a Row of the animals table and *computes* the image of a solid red circle using the animal's `pounds` as the radius.

Contract and Purpose Statement

Every contract has three parts...

smart-dot :: (r :: Row) -> Image
function name domain range

Consumes an animal, and computes a solid red circle using the weight in pounds as the radius

what does the function do?

Examples

Write some examples, then circle and label what changes...

examples:

 smart-dot ("animalA") is circle(animalA["pounds"], "solid", "red")
function name input(s) what the function produces

 smart-dot ("animalB") is circle(animalB["pounds"], "solid", "red")
function name input(s) what the function produces

end

Definition

Write the definition, giving variable names to all your input values...

fun smart-dot (r) :
function name variable(s)

 circle(r["pounds"], "solid", "red")
what the function does with those variable(s)

end