

The Design Recipe

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

Directions : Define a function called `is-dog`, which consumes a `Row` of the `animals` table and *computes* whether the animal is a dog.

Contract and Purpose Statement

Every contract has three parts...

is-dog:: (r :: Row) -> Boolean

function name domain range

Consumes an animal, and computes whether the species == "dog"

what does the function do?

Examples

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

examples:

is-dog ("animalA") **is** animalA["species"] == "dog"

function name input(s) what the function produces

is-dog ("animalB") **is** _____

function name input(s) what the function produces

end

Definition

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

fun is-dog(r):

function name variable(s)

r["species"] == "dog"

what the function does with those variable(s)

end

Directions : Define a function called `is-female`, which consumes a `Row` of the `animals` table and returns true if the animal is female.

Contract and Purpose Statement

Every contract has three parts...

_____ :: _____ -> _____

function name domain range

what does the function do?

Examples

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

examples:

_____ (_____) **is** _____

function name input(s) what the function produces

_____ (_____) **is** _____

function name input(s) what the function produces

end

Definition

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

fun _____ (_____):

function name variable(s)

what the function does with those variable(s)

end