The Design Recipe

Directions: A dot is a solid circle of radius 50. Define a function called `dot`, which makes dots of any color it is given

Contract and Purpose Statement □

Every contract has three parts...

# dot:: (color :: String) -> Image

function name domain range

# Consumes a color, and produces a solid, 50px-radius circle of that color.

what does the function do?

Examples □

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

examples:

dot ("\"red\"") **is** circle(50, "solid", "red")

function name input(s) what the function produces

dot ("\"blue\"") **is** circle(50, "solid", "blue")

function name input(s) what the function produces

end

Definition □

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

fun dot(color):

function name variable(s)

circle(50, "solid", color)

what the function does with those variable(s)

end

Directions: A gym membership costs $25/month, with a one-time $75 signing fee. Define a function `membership` that computes the total cost of a membership for a given number of months.

Contract and Purpose Statement □

Every contract has three parts...

# membership:: (months :: Number) -> Number

function name domain range

# Consumes a number of months, and produces the total cost of a membership given a signing fee of $75 and $25/month.

what does the function do?

Examples □

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

examples:

membership ("5") **is** (5 * 25) + 75

function name input(s) what the function produces

membership ("16") **is** (16 * 25) + 75

function name input(s) what the function produces

end

Definition □

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

fun membership(months):

function name variable(s)

(months * 25) + 75

what the function does with those variable(s)

end