

What's Wrong with these Recipes? 4

Directions: You are putting together a list of flowers in your garden based on their color. You have red roses, purple tulips, and yellow daisies. Write a function that takes in the color of a flower and returns the name of the flower.

Contract and Purpose Statement

Every contract has three parts...

flower-name:: String -> String
function name domain range

Takes the name of the flower and returns its color

what does the function do?

Examples

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

examples:

flower-name ("red") is rose
function name input(s) what the function produces

flower-name ("tulip") is purple
function name input(s) what the function produces

flower-name ("yellow") is daisy
function name input(s) what the function produces

end

Definition

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

fun flower-name(color):
function name variable(s)

ask:

| color == "red" then: "rose"

| color == "purple" then: "tulip"

| color == "yellow" then: "daisy"

| otherwise: "That flower isn't in the garden!"

end

end

Directions: You will be late to class if you have to walk more than 25 pixels to get there. Write a function that takes in your x-coordinate and y-coordinate and the x-coordinate and y-coordinate of the classroom and returns true if you will be late to class and false if you will be on time.

Contract and Purpose Statement

Every contract has three parts...

late-to-class:: Number, Number, Number, Number -> Boolean
function name domain range

Takes the coordinates of my location and a classroom and returns true if the distance is more than 25 and false if it is less than 25.

Examples

what does the function do?

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

examples:

late-to-class (40, 55) is 25 > distance(40,55)
function name input(s) what the function produces

late-to-class (40, 55) is 25 < distance(40,55)
function name input(s) what the function produces

end

Definition

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

fun late-to-class(student-x, student-y, school-x, school-y):

function name

variable(s)

(25 < distance(student-x, student-y))

what the function does with those variable(s)

end