

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...

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

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

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

Definition

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

```
(define (flower-name color)
  (cond
    [(string=? color "red") "rose"]
    [(string=? color "purple") "tulip"]
    [(string=? color "yellow") "daisy"]
    [else
     "That flower isn't in the garden!"]
  ))
```

what the function does with those variable(s)

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...

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

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

Definition

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

```
(define (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)