# 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")
(EXAMPLE (flower-name "tulip") "purple")
(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!"]
  ))
```
*function name* *variable(s)* *what the function does with those variable(s)*

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**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 coorindates of my location and a classroom and returns true if the distance is more than 25
  and false if it is less than 25.
```
*what does the function do?*

## Examples

*Write some examples, then circle and label what changes…*

```
(EXAMPLE (late-to-class? 40 55) (> 25 (distance 40 55)))
(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)*