

The Design Recipe

Directions: Write a function `split-tab` that takes in a cost and the number of people sharing the bill and splits the cost equally.

Contract and Purpose Statement

Every contract has three parts...

; `split-tab` : Number Number -> Number
function name domain range

; Takes in a cost and a number of people and divides the cost by the number of people, returning the value.

Examples

what does the function do?

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

(EXAMPLE (`split-tab` 200 10) (`/` 200 10))
function name input(s) what the function produces

(EXAMPLE (`split-tab` 500 5) (`/` 500 5))
function name input(s) what the function produces

Definition

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

(define (`split-tab` cost people)
function name variable(s)
(`/` cost people)
what the function does with those variable(s))

Directions: Write a function `num-cube` that takes in a number and returns the cube of that number.

Contract and Purpose Statement

Every contract has three parts...

; `num-cube` : Number -> Number
function name domain range

; Takes in a number, cubes it and returns that value.

what does the function do?

Examples

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

(EXAMPLE (`num-cube` 1) (`*` 1 (`*` 1 1)))
function name input(s) what the function produces

(EXAMPLE (`num-cube` 3) (`*` 3 (`*` 3 3)))
function name input(s) what the function produces

Definition

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

(define (`num-cube` n)
function name variable(s)
(`*` n (`*` n n))
what the function does with those variable(s))