

# 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...

;  
\_\_\_\_\_ : \_\_\_\_\_ -> \_\_\_\_\_  
function name domain range  
;  
\_\_\_\_\_  
what does the function do?

## Examples

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

( EXAMPLE ( \_\_\_\_\_ ) \_\_\_\_\_ )  
function name input(s) what the function produces  
( EXAMPLE ( \_\_\_\_\_ ) \_\_\_\_\_ )  
function name input(s) what the function produces

## Definition

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

(define ( \_\_\_\_\_ )  
function name variable(s)  
\_\_\_\_\_  
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...

;  
\_\_\_\_\_ : \_\_\_\_\_ -> \_\_\_\_\_  
function name domain range  
;  
\_\_\_\_\_  
what does the function do?

## Examples

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

( EXAMPLE ( \_\_\_\_\_ ) \_\_\_\_\_ )  
function name input(s) what the function produces  
( EXAMPLE ( \_\_\_\_\_ ) \_\_\_\_\_ )  
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## Definition

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

(define ( \_\_\_\_\_ )  
function name variable(s)  
\_\_\_\_\_  
what the function does with those variable(s))