

Word Problem: line-length

Directions : Write a function called 'line-length', which takes in two numbers and returns the **positive difference** between them. It should always subtract the smaller number from the bigger one. If they are equal, it should return zero.

Contract and Purpose Statement

Every contract has three parts...

; line-length : Number Number -> Number
function name *domain* *range*

; Consumes two numbers, and produces the positive difference between them
what does the function do?

Examples

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

(EXAMPLE (line-length 10 5) (- 10 5)
function name *input(s)* *what the function produces*

(EXAMPLE (line-length 2 8) (- 8 2)
function name *input(s)* *what the function produces*

Definition

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

(define (line-length a b)
function name *variable(s)*

(cond

[(> a b) (- a b)]

[(< a b) (- b a)]

))
what the function does with those variable(s)