

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, and if they are equal it should return zero.

Contract and Purpose Statement



Every contract has three parts...

line-length	::	Number, Number	->	Number
<i>function name</i>		<i>domain</i>		<i>range</i>

Produce positive difference between two given numbers

what does the function do?

Examples



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

examples:

line-length	(10, 5) is	10 - 5
<i>function name</i>		<i>input(s)</i>		<i>what the function produces</i>

line-length	(2, 8) is	8 - 2
<i>function name</i>		<i>input(s)</i>		<i>what the function produces</i>

end

Definition



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

fun line-length (a, b):

if a > b : a - b

else: b - a

end

end