

Word Problem: is-onscreen

Directions : Use the Design Recipe to write a function `is-onscreen` , which takes in an x-coordinate and checks to see if Sam is safe on the left while also being safe on the right.

Contract and Purpose Statement

Every contract has three parts...

#	<u>is-onscreen::</u>	<u>Number</u>	->	<u>Boolean</u>
	<i>function name</i>	<i>domain</i>		<i>range</i>

Consumes an x-coordinate and produces true if Sam is on the screen

what does the function do?

Examples

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

examples:

<u>is-onscreen (</u>	<u>100</u>	<u>) is is-safe-left(100) and is-safe-right(100)</u>
<i>function name</i>	<i>input(s)</i>	<i>what the function produces</i>
<u>is-onscreen (</u>	<u>-180</u>	<u>) is is-safe-left(-180) and is-safe-right(-180)</u>
<i>function name</i>	<i>input(s)</i>	<i>what the function produces</i>

end

Definition

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

fun is-onscreen(x):

function name *variable(s)*

is-safe-left(x) and is-safe-right(x)

what the function does with those variable(s)

end