

Check for Mistakes in this Word Problem: long-name?

Directions: Names that are longer than 20 characters are considered long names. Write a function that takes in a person's name and returns true if it is a long name and false if it is not.

Contract and Purpose Statement

Every contract has three parts ...

<code>;</code>	<code>long-name?</code>	<code>:</code>	<code>string</code>	<code>→</code>	<code>boolean</code>
	<i>function name</i>		<i>domain</i>		<i>range</i>

<code>;</code>	<code>Check if a name is longer than 20 characters</code>
	<i>what does the function do?</i>

Examples

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

<code>(EXAMPLE(</code>	<code>long-name?</code>	<code>"John Joseph Jingleheimer Schmidt")</code>
	<i>function name</i>	<i>input(s)</i>

<code>(> (string=? "John Joseph Jingleheimer Schmidt") 10)</code>	<code>)</code>
<i>what the function produces</i>	

<code>(EXAMPLE(</code>	<code>long-name?</code>	<code>"Joe Jones")</code>	<code>(> (string=? "Joe Jones") 10)</code>	<code>)</code>
	<i>function name</i>	<i>input(s)</i>	<i>what the function produces</i>	

Definition

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

<code>(define(</code>	<code>long?</code>	<code>name</code>	<code>)</code>
	<i>function name</i>	<i>variables</i>	

<code>(< name 20)</code>	<code>)</code>
<i>what the function does with those variables</i>	