

Contracts

Contracts tell us how to use a function. For example: `num-min :: (a :: Number, b :: Number) -> Number` tells us that the name of the function is `num-min` , it takes two inputs (both Numbers), and it evaluates to a `Number` . From the contract, we know `num-min (4, 6)` will evaluate to a `Number` . Use the blank line under each contract for notes or sample code for that function!

Name	Domain	Range
<code>string-repeat</code>	<code>:: (text :: String, repeat :: Number)</code>	<code>-> String</code>
<code>string-repeat ("cheetah ", 5)</code>		
<code>string-contains</code>	<code>:: (text :: String, search-for :: String)</code>	<code>-> Boolean</code>
<code>string-contains("rockstar", "star")</code>		
<code>num-sqr</code>	<code>:: (n :: Number)</code>	<code>-> Number</code>
<code>num-sqr (9)</code>		
<code>num-sqrt</code>	<code>:: (n :: Number)</code>	<code>-> Number</code>
<code>num-sqrt (25)</code>		
<code>num-min</code>	<code>:: (a :: Number, b :: Number)</code>	<code>-> Number</code>
<code>num-min (80, 20)</code>		
<code>num-max</code>	<code>:: (a :: Number, b :: Number)</code>	<code>-> Number</code>
<code>num-max (80, 20)</code>		
<code>count</code>	<code>:: (t :: Table, col :: String)</code>	<code>-> Table</code>
<code>count (animals-table, "species")</code>		
<code>mean</code>	<code>:: (t :: Table, col :: String)</code>	<code>-> Number</code>
<code>mean (animals-table, "age")</code>		
<code>median</code>	<code>:: (t :: Table, col :: String)</code>	<code>-> Number</code>
<code>median (animals-table, "age")</code>		
<code>modes</code>	<code>:: (t :: Table, col :: String)</code>	<code>-> List<Number></code>
<code>modes (animals-table, "age")</code>		
<code>bar-chart</code>	<code>:: (t :: Table, col :: String)</code>	<code>-> Image</code>
<code>bar-chart (animals-table, "legs")</code>		
<code>pie-chart</code>	<code>:: (t :: Table, col :: String)</code>	<code>-> Image</code>
<code>pie-chart (animals-table, "species")</code>		
<code>histogram</code>	<code>:: (t :: Table, values :: String, bin-width :: Number)</code>	<code>-> Image</code>
<code>histogram (animals-table, "age", 2)</code>		