

The Design Recipe

For the word problems below, assume you have `animalA` and `animalB` defined in your code.

Directions : Define a function called `is-old` , which consumes a Row of the animals table and *computes* whether it is more than 12 years old.

Contract and Purpose Statement

Every contract has three parts...

```
# _____ :: _____ -> _____  
      function name           domain           range  
  
# _____  
                                what does the function do?
```

Examples

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

examples :

```
_____ ( _____ ) is _____  
function name      input(s)           what the function produces  
  
_____ ( _____ ) is _____  
function name      input(s)           what the function produces
```

end

Definition

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

```
fun _____ ( _____ ) :  
    function name      variable(s)  
  
    _____  
                        what the function does with those variable(s)  
  
end
```

Directions : Define a function called `name-has-s` , which returns true if an animal's name contains the letter "s"

Contract and Purpose Statement

Every contract has three parts...

```
# _____ name-has-s:: _____ -> _____  
      function name           domain           range  
  
# _____  
                                what does the function do?
```

Examples

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

examples :

```
_____ ( _____ ) is _____  
function name      input(s)           what the function produces  
  
_____ ( _____ ) is _____  
function name      input(s)           what the function produces
```

end

Definition

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

```
fun _____ name-has-s( _____ r ) :  
    function name      variable(s)  
  
    string-contains(r["name"], "s")  
  
    _____  
                        what the function does with those variable(s)  
  
end
```