The Design Recipe

Directions: A dot is a solid circle of radius 50. Define a function called `dot`, which makes dots of any color it is given

Contract and Purpose Statement

Every contract has three parts...

\#   dot:: _____ -> _____
     function name   *domain*   *range*

\# Consumes a color, and produces a solid, 50px-radius circle of that color.
                                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   dot(_____):
      function name   *variable(s)*

_____
                    what the function does with those variable(s)

end

Directions: A gym membership costs $25/month, with a one-time $75 signing fee. Define a function `membership` that computes the total cost of a membership for a given number of months.

Contract and Purpose Statement

Every contract has three parts...

\#   membership::   (months :: Number)   ->   Number
    function name   *domain*   *range*

\# Consumes a number of months, and produces the total cost of a membership given a signing fee of $75 and $25/month.
                             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   membership(months   ):
      function name   *variable(s)*

_____
                    what the function does with those variable(s)

end