# The Design Recipe

Referenced from lesson [Method Chaining](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/method-chaining/index.shtml) (Spring, 2021)

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…​*

\_\_\_\_\_\_\_\_\_\_\_\_::\_\_\_\_\_\_->\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| **Examples** |  |
| --- | --- |

*Write some examples, then circle and label what changes…​*

examples:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

end

| **Definition** |  |
| --- | --- |

*Write the definition, giving variable names to all your input values…​*

fun \_\_\_\_\_\_\_\_\_\_\_\_(\_\_):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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…​*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_::\_\_\_\_\_\_->\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

| **Examples** |  |
| --- | --- |

*Write some examples, then circle and label what changes…​*

examples:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

end

| **Definition** |  |
| --- | --- |

*Write the definition, giving variable names to all your input values…​*

fun name-has-s(r):

\_\_\_\_string-contains(r["name"], "s")

end

*These materials were developed partly through support of the National Science Foundation, (awards 1042210, 1535276, 1648684, and 1738598).  Bootstrap:Data Science by the* [*Bootstrap Community*](https://bootstrapworld.org/community/index.shtml) *is licensed under a* [*Creative Commons 4.0 Unported License*](https://creativecommons.org/licenses/by-nc-nd/4.0/)*. This license does not grant permission to run training or professional development. Offering training or professional development with materials substantially derived from Bootstrap must be approved in writing by a Bootstrap Director. Permissions beyond the scope of this license, such as to run training, may be available by contacting* [*contact@BootstrapWorld.org*](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/method-chaining/pages/mailto:contact@BootstrapWorld.org)*.*

Last updated 2021-10-12 13:35:56 -0400