# The Design Recipe - Lookup

Referenced from lesson [Defining Table Functions](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/defining-table-functions/index.shtml) (Spring, 2021)

For the word problems below, assume fixed and unfixed are already defined as data rows.

**Directions**: Define a function called lookup-fixed, which looks up whether or not an animal is fixed.

| **Contract and Purpose Statement** |  |
| --- | --- |

*Every contract has three parts…​*

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

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

examples:

\_\_\_\_lookup-fixed (fixed-row)\_\_\_\_ is fixed-row["fixed"]

\_\_\_\_lookup-fixed (unfixed-row)\_\_\_\_ is unfixed-row["fixed"]

end

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

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

fun lookup-fixed(r):

\_\_\_\_r["fixed"]

end

**Directions**: Define a function called lookup-name, which consumes a Row of the animals table and looks up the name of that animal.

| **Contract and Purpose Statement** |  |
| --- | --- |

*Every contract has three parts…​*

lookup-name::Row->String

Consumes an animal, and looks up the name

| **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

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