# Chaining Methods 2: Order Matters

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

You have the following functions defined below (read them *carefully!*):

fun is-female(r): r["sex"] == "female" end  
fun kilograms(r): r["pounds"] / 2.2 end  
fun is-heavy(r): r["kilos"] > 25 end

The table t below represents four animals from the shelter:

| name | sex | age | fixed | pounds |
| --- | --- | --- | --- | --- |
| "Toggle" | "female" | 3 | true | 48 |
| "Fritz" | "male" | 4 | true | 92 |
| "Nori" | "female" | 6 | true | 35.3 |
| "Maple" | "female" | 3 | true | 51.6 |

*Match* each Pyret expression (left) to the description of what it does (right). **Note: one description might match multiple expressions!**

| t.order-by("kilos", true) | **1** |  | **A** | Produces a table containing Toggle, Nori and Maple, with an extra column showing their weight in kilograms |
| --- | --- | --- | --- | --- |
| t.filter(is-female)  .build-column("kilos", kilograms) | **2** |  | **B** | Produces a table containing Maple, Nori and Toggle (in that order) |
| t.build-column("kilos", kilograms)  .filter(is-heavy) | **3** |  | **C** | Produces a table containing only Fritz. |
| t.filter(is-heavy)  .build-column("kilos", kilograms) | **4** |  | **D** | Won’t run: will produce an error |
| t.build-column("kilos", kilograms)  .filter(is-heavy)  .order-by("sex", true) | **5** |  | **E** | Produces a table containing only Fritz, with two extra columns. |
| t.build-column("female", is-female)  .build-column("kilos", kilograms)  .filter(is-heavy) | **6** |  | **F** | Produces a table containing Maple and Fritz |

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