# Chaining Methods

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-fixed(r): r["fixed"] end  
fun is-young(r): r["age"] < 4 end  
fun nametag(r): text(r["name"], 20, "red") 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).

| t.order-by("age", true) | **1** |  | **A** | Produces a table containing only Toggle and Maple |
| --- | --- | --- | --- | --- |
| t.filter(is-fixed) | **2** |  | **B** | Produces a table of only young, fixed animals |
| t.build-column("sticker", nametag) | **3** |  | **C** | Produces a table, sorted youngest-to-oldest |
| t.filter(is-young) | **4** |  | **D** | Produces a table with an extra column, named "sticker" |
| t.filter(is-young)  .filter(is-fixed) | **5** |  | **E** | Produces a table containing Maple and Toggle, in that order |
| t.filter(is-young)  .order-by("pounds", false) | **6** |  | **F** | Produces a table containing the same four animals |
| t.build-column("label", nametag)  .order-by("age", true) | **7** |  | **G** | Won’t run: will produce an error |
| t.order-by("sx", false) | **8** |  | **H** | Produces a table with an extra "label" column, sorted youngest-to-oldest |

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