

Chaining Methods

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).

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