



CL16: Quiz Review

Announcements

- EX04 due Monday at 11:59pm
- RD00 released today, due next Wednesday
 - Read a short chapter (that I'll provide to you) and select 2 of the prompts to answer

```
1  trees: set[str] = {"oak", "pine", "maple"}
2  animals: list[str] = ["squirrel", "deer", "frog"]
3  features: dict[str, int] = {"river": 1, "hill": 3}
```

Warm-up: Write a single line of code to accomplish each of the following:

1. Remove “maple” from the trees set.
2. Add “willow” to the trees set.
3. Add “mouse” to the animals list.
4. Remove “frog” from the animals list.
5. Find the second animal in the animals list.
6. Add “waterfall” with a value of 1 to the features dictionary.
7. Remove the key-value pair, “hill” and 3, from the features dictionary.
8. Find the value associated with “river” in the features dictionary.
9. Find the number of key-value pairs in the dictionary.

Memory diagram

```
1  def quantify(vals: list[int]) -> dict[int, int]:
2      counts: dict[int, int] = {}
3      for num in vals:
4          if num in counts:
5              counts[num] += 1
6          else:
7              counts[num] = 1
8      return counts
9
10
11 int_list: list[int] = [1, 1, 0]
12 print(quantify(int_list))
```