Correlation

$$r_{xy} = \frac{n\sum x_i y_i - \sum x_i \sum y_i}{\sqrt{n\sum x_i^2 - \left(\sum x_i\right)^2}\sqrt{n\sum y_i^2 - \left(\sum y_i\right)^2}}$$

- We have **`count(data)`**, **`sumxy(data)`**, **`sumx(data)`**, **`sumy(data)`**, **`sumx2(data)`**, and **`sumy2(data)`**
  - Shouldn't be too hard to compute this
  - Translate $\sum x_i$ to **`sumx()`**

```
def count(list_of_pairs):
    return sum(1 for i in list_of_pairs)
```

Everyone got it?