Week 1: Day 4 - Exercises & Practice

Today is mainly a practice day, to use everything we have learned so far.

We cover one new topic, that is basic file I/O (input output) operations.

File I/O exercises:

1. Mean exercise: read in the values from *numbers.txt*, calculate and print out the mean. Do this in two ways, the first way by opening and explicitly closing the file, and the second way with the with statement.

2. Average rainfall exercise: read in the average rainfall values from *rainfall.txt* and write them into another file *rainfall_months.txt* that puts the average rainfall into full sentences. So, for each line you would have 'The average rainfall in [month] was [value]'.

The review exercises we can do are these first four from Rosalind. We will go through them in class, but I recommend you try to do exercise 4 on your own as well. It nicely wraps up what we have learned so far.

1. https://rosalind.info/problems/dna/

2. https://rosalind.info/problems/rna/

3. https://rosalind.info/problems/revc/

4. https://rosalind.info/problems/gc/: this exercise is the most complex encountered so far. Definitely worth trying out, because it forces you to use almost everything learned in the course up until this point.