

## Self-Assessment for Wednesday 2/21

This self-assessment covers material from Sections 3.1–3.11 of Modeling and Simulation in Python.

It is open book, open notes, open computer. You can take as long as you need. You should make a reasonable effort to complete the diagnostic on your own. Then check your answers with a classmate.

---

### Vocabulary

Fill in the blanks in the following sentences with the words that make the most sense.

1. Before you can use the functions defined in a library, you have to \_\_\_\_\_ the library.
2. The result from `read_html` is a sequence of \_\_\_\_\_ objects.
3. The \_\_\_\_\_ object, which is defined in the `modsim` library, represents a sequence of times or dates and a sequence of associated values.
4. Putting data values in the text of a program is called \_\_\_\_\_, and it is usually considered a bad idea.
5. In a dynamic model, if the net change over time is zero, the system is in \_\_\_\_\_. In the quadratic growth model, that happens when the population reaches \_\_\_\_\_.
6. One version of the quadratic model uses alpha and beta; the other uses  $r$  and  $K$ . It's the same model, just two ways to \_\_\_\_\_ it.
7. In Section 3.7, the term “factoring out” is used. Write a few sentences to explain what that means to your fellow classmate.