## Reading: Data Science Handbook, chapter 2

- 1. Assume that we have a set of data, all of which are the same type, such as integers or strings. How would you store it for better efficiency: a) Use a Python list for flexibility b) Use a NumPy array?
- 2. The code below is based on population data from 1939 from Wikipedia. Which country is stored in "x"? (capitalization not important)

Hint: https://jakevdp.github.io/PythonDataScienceHandbook/02.06-boolean-arrays-and-masks.html

3. Suppose x is a numeric array of length 10. If you evaluate expression x < 0, what is the length of the result?

Hint: https://jakevdp.github.io/PythonDataScienceHandbook/02.06-boolean-arrays-and-masks.html

- 4. According to our book, which of the following is the default sort algorithm for NumPy? a) mergesort b) Quicksort?
- 5. If I want to combine the results of two mask arrays (logic values), would you use the operators a) & and | or b) and and or?

 $Hint: \underline{https://jakevdp.github.io/PythonDataScienceHandbook/02.06-boolean-arrays-and-masks.html\#Aside:-Using-the-Keywords-and/or-Versus-the-Operators-\&/[]$