

## 1.3: Exercises

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1. Gather the following information for the first 18 elements in the periodic table and create a vector for each:

- name
- symbol
- atomic number
- atomic weight
- phase (gas, liquid, solid)
- group number (1–18)
- row number
- atomic radius (in picometers)
- electronegativity
- first ionization potential (in electron volts)

Combine these vectors into a single data frame and save it as a .csv file. In addition, save the data frame and the individual vectors as a single .RData file. You will use these files to complete exercises in some of the chapters that follow.

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