Several of the columns in our data break school attributes down by race and gender. The names of these columns begin with an abbreviation for the attribute name. SCH\_ENRstands for "school enrollment," for example. Next, they include a code name for race, such as HP. The last part is a code name for gender, which is eitherF or M. For example, the complete name for the column that records hispanic female enrollment is SCH\_ENR\_HI\_F.

Here are the code names for each race:

* HI - Hispanic
* AM - American Indian
* AS - Asian
* HP - Hawaiian or Pacific Islander
* BL - Black
* WH - White
* TR - Two or more races

Here are the gender code names:

* F - Female
* M - Male

The data set contains one column for every possible combination of racial and gender code names associated with an attribute -- that's why there are more than 2,000 columns!

Here's a list of all of the columns that indicate school enrollment, for example:

* SCH\_ENR\_HI\_M
* SCH\_ENR\_HI\_F
* SCH\_ENR\_AM\_M
* SCH\_ENR\_AM\_F
* SCH\_ENR\_AS\_M
* SCH\_ENR\_AS\_F
* SCH\_ENR\_HP\_M
* SCH\_ENR\_HP\_F
* SCH\_ENR\_BL\_M
* SCH\_ENR\_BL\_F
* SCH\_ENR\_WH\_M
* SCH\_ENR\_WH\_F
* SCH\_ENR\_TR\_M
* SCH\_ENR\_TR\_F

There are also two columns that indicate total enrollment by gender:

* TOT\_ENR\_M - Total male enrollment
* TOT\_ENR\_F - Total female enrollment

Several other column names combine race and gender codes, including:

* SCH\_HBREPORTED\_DIS - Students who report being harrased or bullied
* SCH\_DISCWODIS\_EXPWOE - Students without disabilities who were expelled from school
* SCH\_RET\_G12 - Students who started and completed grade 12

Instructions

* Create a new file named enrollment.py.
* In enrollment.py:
  + Read in the data file using pandas.
  + Create a column named total\_enrollment that adds the TOT\_ENR\_M and TOT\_ENR\_Fcolumns.
  + Compute the sums of all of the columns that break down enrollment by race and gender.
  + Compute the sum of the total\_enrollment column, and assign the result to the variable all\_enrollment.
  + Divide the sums of the columns by all\_enrollment to determine the percentage of enrollment that each race and gender makes up.
    - Print out the results.
* Run enrollment.py.
* Compare the results to the overall population of the United States, broken down by race and gender. You can find the data on race at [Wikipedia's U.S. race demography page](https://en.wikipedia.org/wiki/Demography_of_the_United_States#Race_and_ethnicity), and the data on gender at [Wikipedia's U.S. sex ratios page](https://en.wikipedia.org/wiki/Demography_of_the_United_States#Sex_ratios).
  + To make the analysis simpler, you can assume that the gender ratio in the U.S. is 1:1.
* Add any interesting patterns you've found to findings.txt.