

COP 2930 - Introduction to Computing

Custom Sorting - Suggested Exercises

Objectives:

1. Practice sorting a list of simple objects.
 - 1) Edit the `votes_alt.py` program to print out the list ordered by name (in regular alphabetical order).
 - 2) Create a nutrition object that stores five pieces of information: the name of the object, the number of grams of carbohydrates, protein and fat of the object and the total calories. Recall that 1 gram of carbohydrates and protein has 4 calories while 1 gram of fat has 9 calories. In the constructor (the `self init` function), take as input `self`, `carbs`, `protein` and `fat`. Have the function itself set the `calories` field. Then, create `main` with a list of several nutrition objects and sort these by calories, from least to most. For items with the same number of calories, list these in alphabetical order.
 - 3) Come up with your own object, create it, and sort a list of it!