Project 9 CS 261

Save your program for this project as <emailID>\_project9.py where <emailID> is the part of your Hampden-Sydney e-mail address before the @ symbol. When you are finished, e-mail your program to blins@hsc.edu. Your solution is due by noon on Friday, November 8.

## Conference Registration

A local programming club is organizing their annual conference. The registration information for the people who are planning to attend is stored in the file

```
https://bclins.github.io/fall24/cs261/conference.json
```

To complete this project you will need to do the following things.

1. Import the json library and use the following commands to extract the contents of the file above as a dictionary:

```
file = open("conference.json")
registration_data = json.load(file)
```

- 2. The organizers of the conference plan on charging \$20 for everyone who registers, except seniors who only pay \$10. In addition, they are charging \$12 for anyone who signed up for lunch at the conference. For people who plan to eat dinner at the conference, there are three different meal options: beef, chicken, or vegetarian. The beef dinner costs \$32, while the chicken and vegetarian dinners both cost \$28. Write a function registration\_fees(person) to calculate how much each person owes. Your function should input a dictionary with the registration information for one person, and output the total cost of their registration plus meals.
- 3. Write a function meal\_counts(registration\_data) that determines how many of each dinner option (beef, chicken, and vegetarian) is needed, and also how many lunches will be needed.
- 4. The caterers for the conference would like to know the names of the people who ordered vegetarian meals so that they can bring those meals out separately. Write a function called get\_vegetarians(registration\_data) that returns a list with the names of everyone who ordered a vegetarian dinner.

## Hints

Be sure to carefully inspect how the data is stored in the registration\_data dictionary. Make note of the types for each value.