

Lily Parker - CS201S23

Question 1

- **How many instance variables are there in Person201?**
 - There are 3, myName, myBuilding, and myFloor
- **How many constructors are there in Person201?**
 - There are 2, the first starting on line 18 and the second starting on line 30. They are called public Person201() - this takes no parameters - and public Person201(String name, String building, int floor) - this takes three parameters.

Question 2

According to the equals method of the Person201 class, when are two Person201 objects considered to be equal? Is it case sensitive for their names or for the names of their buildings? (Case sensitive means different answers are returned depending on capitalization).

They are considered equal if they are of the same class, and if both their name and floor are equal (however this is not case sensitive, so Lily, Trinity != lily, trinity.)

Question 3

Does the main method of Person201Demo create any objects of type Person201Utilities? If so, why? If not, why is this not necessary?

Yes, it creates two lists, sameFloor and sameBuilding which both use Person201Utilities in order to be created.

No, the two lists created, sameFloor and sameBuilding both use Person201 type, not Person201Utilities type. This means that it calls an object type from Person201Utilities.java but does not use a Person201Utilities object type.

Question 4

Note that your Person201Finder.java program did not need any kind of password to automatically pull data from the people.txt file; it is publicly available on the internet. In one or two paragraphs, reflect on and respond to one or more of the following related questions. This question is graded for honest effort, not correctness.

- **Do you think it's a good idea to keep information about individuals publicly available on the internet? What are some pros and cons?**
 - I think for those with good intentions (which is obviously a subjective description), there are pros. Creating programs which sort data is not inherently bad, and can be used for research. However, there are obvious cons. Programs may sort lists with malicious intent, and sift through public information for purposes like targeted ads or data mining.
- **If you were the designer of a web application that included personal information (such as a social media app), how would you protect the privacy of your users?**
 - One thing to note about this URL used in the Person201Finder.java file is that it was written for the purpose of being sorted in code. Obviously, the first step is to hide and store user information in ways that wouldn't easily be iterated through by low level programs.