

**SI SESSION PLAN**

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| SI Leader: | Alex Iacob | Session Date: | 10/21/21 |
| Week #: | 9 | Session Letter: | B |
| Course & Section: | CSCI 141 Section 3 | Course Instructor: | Steele |
| Planning Date: | 10/21/21 | Planning Time: | 11:05 – 11:45 |

**Beginning reminders:**

1. Is the room set up in a way conducive to collaborative learning?
2. Is the agenda posted to the board for participants to see?
3. Do you have your attendance sheet up to record your attendance?
4. Do you have any other documents/resources up and ready to go for your session?

If you are all set with the reminders, then go have fun and good luck!

**Main concepts student should feel more comfortable with:**

* Data classes
* Dictionaries

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| **Topics to cover** | **Process to use\*:** | **Time** |
| **Opener:** Announcements | Talk to the students and ask about how they feel about lab sessions swapping, also get on the board upcoming due dates | 2-3 |
| Run configs | As per someone’s request during lab, we’re going to start with Run Configurations. Although I don’t think that Prof. Steele will take time during lecture to explain this, it is a good concept to know in general programming and debugging.  I have a new directory with text files that I want to read but I keep on getting a FileNotFound error? What’s the cause, the working directory doesn’t point to the right directory, upon changing that, it works.  Also have to talk about program arguments; mention how when you run the file from the command line, you can add any args you want. | 10-15 |
| Data classes | Data classes in python is basically object oriented programming lite. You have to import dataclass from data classes and start any dataclass with @dataclass then put each attribute with its type immediately after.  Go over how to create and access individual attributes in a data class object. | 10-15 |
| Dictionaries | Talk about dictionary access time complexity, which is constant because of the unique keys.  Go over what key – value pairs are, how to access things in a dictionary, how to add/delete things in a dictionary. | 10-15 |
| Recipe activity | Use data classes to create a recipe and cookbook dictionary as such:  *File creates a recipe and adds it to a cookbook dictionary A recipe has:  - Recipe name  - Author  - Ingredients  - Number of ingredients  - Servings  - Cooking time*  I’m going to split the students into pairs and make them work on this among themselves, then share with the class. | 25-30 |
| **Closer:** Final questions/requests | I want to leave the last few minutes for last questions and whatnot. | 2-3 |

*\*Possible processes: puzzles, informal quiz, think-pair-share, paired problem solving, graphic organizers, cheat sheets, collaborative questioning, student summaries, reviewing notes, work at the board, vocabulary…*

**Ending reminders:**

1. Did you check everyone in?
2. Did you remind everyone of the next session and any upcoming tests or quizzes or due dates?

**What closing tips/strategies would you like to emphasize through sessions this week?** Please be specific.

* Remember the time complexity sheet.

**After session thoughts:** How did the session go? Is there anything you would like to keep/drop/change for next time and how?

* This honestly felt like a recitation more than a session. I had Emma observe my session and they said the same thing. Emma also said that I should work on my wait time more and that I rephrase my questions immediately after without giving them time to process the question

**Bi-Weekly Question:** What concerns do you have for your students (if any)?

* Most of the students who show up regularly are pretty quiet students and only really say or do stuff when I pick on them. However they are starting to show improvement in speaking out more.