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| **SI SESSION PLAN** | |  |  |  |  | | --- | --- | --- | --- | | SI Leader: | Alex Iacob | Session Date: | 2/9/23 | | Week #: | 4 | Session Letter: | B | | Course & Section: | CSCI 141 Section 2 | Course Instructor: | Polak | | Planning Date: | 2/9/23 | Planning Time: | 2:50 – 3:00 | |

**Beginning reminders:**

Is the room set up in a way conducive to collaborative learning?

Is the agenda posted to the board for participants to see?

Do you have your attendance sheet up to record your attendance?

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!

**Is there a study strategy you want to focus on? (If so, what is it? Otherwise, leave blank.)**

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

Recursion

Iteration

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity\*** | **Process to use** | **Time** | **After Session Thoughts** |
| **Opener:** | Birds | 2-3 | Birds   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |
| **“Take great inspiration from “ an old exam question but spin it off slightly Part 1** | Split the students like Moses split the sea, right down the middle.  Given this function, what would a timeline look like for ipoly(3, 4):  def ipoly(x, nt):  res = 0  I = 0  While I < nt:  res = 1 + x \* res  I += 1  Return res  Solution should look like:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Time | X | Nt | Res | I | | 0 | 3 | 4 | 0 | 0 | | 1 | 3 | 4 | 1 | 1 | | 2 | 3 | 4 | 4 | 2 | | 3 | 3 | 4 | 13 | 3 | | 4 | 3 | 4 | 40 | 4 | | 20-25 | Pretty good discussions happened here, I got a handful of people talking and whatnot.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |
| **“Take great inspiration from “ an old exam question but spin it off slightly Part 2** | Stay in the same groups and take a look at this question together. Let them cook for 15ish minutes, then have both groups explain their work and difficulties they had while working on it.  “I want to write an iterative function that draws a lot of circles. I can take the user input and keep on drawing circles (that are 25% smaller each consecutive circle). I also want this to return the total area.”  def circles\_i(r):  total\_area = 0  while r >= 25:  tt.circle(r)  total\_area += (math.pi \* (r \*\* 2))  r = (3 \* r) / 4  return total\_area  def groupA(r, area = 0):  while r >= 25:  tt.circle(r)  area += math.pi \* r \* r  r = (3/4) \* r   return area  def groupB(r):  A = 0  while r >= 25:  tt.circle(r)  A += math.pi \* r \* r  r = (3 / 4) \* r  return A | 25-30 | Had some confusion here, but it sparked a lot of discussion. I added the groups’ code next to mine.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |
| **Closer:**  **Exam time review** | Exam is going to be on Week 6.  Monday will be a review lecture, Wednesday is going to be the formal 2 hour written exam, and Friday is going to be the practical.  Make everyone repeat it a few times so they don’t forget. | 3-5 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |

*\*See the* [*Activity Database*](https://docs.google.com/spreadsheets/d/1Oc6uAX2Uaq2Ym6M1FQjivRI_ryA_T9k1AcEKi__3Ml4/edit?usp=sharing) *and* [*SI Share*](https://drive.google.com/drive/folders/1WKkkRXpRW6_OVdc4eFVgAkDRt7y8E_VT?usp=sharing) *for ideas.*

**Ending reminders:**

Did you mark down attendance on your attendance sheet?

Did you remind everyone of the next session and any upcoming tests or quizzes or due dates?

Did you fill in the after session thoughts?

**Optional Notes and Comments:**

I had a student from the other CS1 section stop by and very politely asked to stay, since he was really having trouble with the week’s material. He was polite, asked engaging questions, and understood the fact that he shouldn’t really be there. I said he could stay for the session however I said that it really wasn’t allowed and recommended that he go to Ren’s sessions.

Also, I had a student fully break down after the session, and I didn’t really know how to console a guy crying. He basically said that he just isn’t getting anything and feels that he might fail the class and have to retake it again. In short, I just stayed with him until he calmed down. We reviewed the material a bit more upon his request and we both went on our way.

**Bi-Weekly Question:** Have you talked to your faculty partner about the upcoming exam? If not, do you plan to do so before the midterm exam?

Polak is super supportive of SI, which is really nice. She said that she gives her students her old exams without solutions.