|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SI SESSION PLAN** | |  |  |  |  | | --- | --- | --- | --- | | SI Leader: | Alex Iacob | Session Date: | 3/27/23 | | Week #: | 10 | Session Letter: | A | | Course & Section: | CSCI 141 Section 2 | Course Instructor: | Polak | | Planning Date: | 3/27/23 | Planning Time: | 3:15 – 3:30 | |

**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:**

Stacks

Queues

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity\*** | **Process to use** | **Time** | **After Session Thoughts** |
| **Opener:**  Wordle and talk with everyone |  | 5-10 | My students are a lot more talkative this semester, which makes this more fun, since they usually have fun topics and they are opening up more to me and each other.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |
| **Stacks and Queues** | Stacks are nice  They follow a format that looks like:  @dataclass  Class Stack:  Top: value  Next: Union[“Stack”, None]  *Use cards or markers for this*  The functions we have available are:  Pop() – removes the thing at the top of the stack  Push(item) – pushes the item to the top of the stack  Peek() – returns the thing at the top of the stack  Make\_new\_stack() – makes an empty stack  Stacks are created in a First in Last out fashion.  Queues are easier to visualize  They follow a format that looks like:  @dataclass  Class Queue:  Front: value  Next: Union[“Queue”, None]  *Use cards or markers for this*  The functions we have available are:  Dequeue() – removes the thing at the front of the queue  Enqueue(item) – adds the item at the back of the queue  front() – returns the thing at the front of the queue  Make\_new\_queue() – makes an empty queue  Queues are created in a First in First out fashion. | 30-40 | My students found stacks and queues pretty easy, which made life easier for me.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |
| Time complexities | Adding or removing anything at the front/top of the linked structure is constant time, while recursing over the entire structure is linear time.  There can and will be questions about this on the exam | 5-10 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |
| **Closer: small exam review** | I’ll also pull up some questions from the exam and slightly change them | Remaining time | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 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:**

**Bi-Weekly Question:** Have you tried any new marketing strategies? Which strategies have been successful for increasing your attendance?

Most of my marketing now comes from a small group of students who talk to a lot of people and they market for me. This makes my life easier, though I still try to talk to a lot of people during lab sessions.