

**SI SESSION PLAN**

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| SI Leader: | Alex Iacob | Session Date: | 10/7/21 |
| Week #: | 7 | Session Letter: | B |
| Course & Section: | CSCI 141 Section 3 | Course Instructor: | Steele |
| Planning Date: | 10/6/21 | Planning Time: | 10:00 – 10-25 |

**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:**

* Binary Search
* Insertion Sort
* Python arrays

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| **Topics to cover** | **Process to use\*:** | **Time** |
| **Opener:** Announcements | Mention how lab groups are going to swap after this lab, so Group A goes from Wed lab to Fri lab and Group B goes from Fri lab to Wed lab. I know people are going to mess this up, so I am going to emphasize it. | 2-3 |
| Recap on time complexities | Talk about time complexities using the Big O notation O(1) – constant  O(log n) – logarithmic  O(n) – linear  O(n^2) - quadratic | 5-10 |
| Insertion sort with cards | First go over how insertion sort work on the board, probably get a willing participant to do a simple  Split the class in two and give each group 5-10 cards at random and have each person do one iteration of the program using cards. | 10-15 |
| Binary Search on the board | Going to do two examples of binary search on the board with a random set of numbers of arbitrary size. I’m going to hand a marker to someone and take their seat and ask questions on how to do the binary search. | 5-10 |
| Popcorn Programming for binary search | Going to have the students tell me line-by-line what to write to get a binary search working. | 15-20 |
| **Closer:** Clean the room and redo announcements | After this week’s Sunday session, I have to emphasize this after seeing the room before the session. | 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.

* Go to the tutoring center with homework specific questions.

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

* I had a decent yield this time and the students that came were very responsive to questions.

**Bi-Weekly Question:** What resources are available for students in your course outside of SI? Have you encouraged students to utilize resources that may be beneficial for them?

* I have honestly been promoting the tutoring center more than my own sessions by this point. I made the mistake of helping someone with lab 1 and from then on, I had swarms of students coming asking for help afterwards. I have also mentioned that Google is one of the best tutors out there.