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| **SI SESSION PLAN** | |  |  |  |  | | --- | --- | --- | --- | | SI Leader: | Alex Iacob | Session Date: | 4/17/23 | | Week #: | 13 | Session Letter: | A | | Course & Section: | CSCI 141 Section 2 | Course Instructor: | Polak | | Planning Date: | 4/17/23 | 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:**

Trees

Tree traversals

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity\*** | **Process to use** | **Time** | **After Session Thoughts** |
| **Opener:**  Talk with everyone | Love talking with my students, they’re pretty cool | 5-10 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |

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| **Make a binary search tree** | Implement a binary search tree using the Node class that we have used beforehand.  def insert(tree, val):  node = Node(val)  if tree.root is None:  tree.root = node  return  current = tree.root  while True:  if val < current.val:  if current.left is None:  current.left = node  return  current = current.left  else:  if current.right is None:  current.right = node  return  current = current.right    def search(tree, val):  current = tree.root  while current:  if val == current.val:  return True  elif val < current.val:  current = current.left  else:  current = current.right  return False | 30-35 | Took a little longer than expected, but that is okay   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ☺ | |  |  |  |  |  |  |  |  |  |  | |
| **Closer: Examples of trees in other applications** | Decision trees are cool and fit into this week’s topic.  IBM has this pretty nice website explaining how they work.  https://www.ibm.com/topics/decision-trees | Remaining | I like decision trees   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ☹ | 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:** What is your favorite activity that you have done this semester? Is it in the Activity Database or SI Share? If not, would you consider uploading it?

I follow pretty generic activity outlines that I have done multiple times already. These include using Wordle, brain dump, and examples of things working