CMSC 131 Quiz 4 Worksheet

The fourth quiz for the course will be on Friday, April 16. The following list provides additional information about the quiz:

• The quiz will be posted on Friday, April 16, 9 AM (morning), and due the same day, Friday, April 16, at 5 PM (afternoon).

• It is designed to be completed in one 1 hour, but I am making it available for 8 hours since people have different schedules.

• You will **not have a lecture video on Friday April 16**, so that should free up 1 hour for everyone to work on the quiz.

• We will have normal office hours on Friday April 16, but TAs cannot answer any questions about the quiz in OH (They can help you submit if you have submit server issues).

• Did you install the correct version of Eclipse, Java 15, and course management software on your computer at the start of the semester?   See here: http://www.cs.umd.edu/eclipse/install/

• The quiz will be posted on piazza. You **will** **not** write code. **You will make a formal memory diagram** and upload **the pdf version** to the submit server as you would upload an attachment to a website/email. **It needs to be a pdf**, please do not hand draw the map and take a picture to upload. This will not be acceptable. Please **figure out now** how you plan to create the document, so you do not waste time on this on the quiz day. For example, you can use Google doc or your local copy of MS word. In the links below, you will find a template you can use that already has many of the common shapes. If you use it, delete what you do not need before you turn it in. If you prefer to make your diagram from "scratch" that is ok too. Just make sure it looks "professional" and like the samples.

• You can only post clarification questions in Piazza on quiz day and a CMSC 131 staff member will reply. **You should post as a private post and we will make it public or update the FAQ if others can benefit from the answer. As a student, do not answer any piazza post on quiz day**. Specifics about what should or should not be in a memory diagram will be invalid questions to post in Piazza.

 • Posting of any kind of diagram in Piazza (or other public platforms), during the quiz period, represents an academic integrity violation and will be reported as such.

 • The quiz will be graded based on a rubric provided to the TAs. We will **only grade your last submission** not your "best submission". If you turn something in late, we will grade that one and deduct the late points as it will be your last submission.

 • **You must work by yourself.** Sharing of quiz solutions represents an academic integrity violation and will be reported as such.

• You can use class resources (lecture notes, lecture/lab examples, videos, etc.), but no other resources (e.g., code from the web).

• All submissions must be done via the submit server (no e-mail). The **last submission** on the submit server will be downloaded for manual TA grading purposes (you can submit as many times as you want before the deadline).

• There will be a 1-hour late submission period, therefore you need to submit before Friday, April 16, at 5 PM (afternoon) for your quiz to count on time. If you turn it in between 5 and 6 PM, it will be marked late and there will be a 5-point deduction. Questions will not be answered on piazza during the late period.

• If you are student with an extended time accommodation from ADS, the time frame provided takes into consideration your time allocation. If you need any other assistance or still have concerns to finish the quiz, contact me via email before the quiz day.

• The quiz will cover concepts discussed on this page (Do not worry about example 7 on recursion):

http://www.cs.umd.edu/~nelson/classes/resources/MemoryMapsInformation/

Note: If an object is out in the heap, but is a candidate for garbage collection (no active reference to it in any existing stack frame), delete it from your diagram before you turn it in.

Here is a template you can use:
Most of the common shapes are here and can be copied and pasted as many times as you need. You might need to move the circle to be able to type in the shapes inside of the circle. If you use this template, delete all extra symbols not needed before you turn it into a pdf and submit.

http://www.cs.umd.edu/class/spring2021/cmsc131-01XX/quizzes/Quiz4Template.docx