Exam #7 - CMSC132 (Summer 2022)

Time: The exam will be posted on Thursday July, 21 at 1 PM (afternoon), and due the same day, Thursday July, 21 at 2:20 PM (afternoon).

Content: You will design methods where the focus will be on working with **some subset** of the ADT/data structures listed below:

Binary Tree (make your own)
Binary Search Tree (make your own)
Stack (make your own)
Stack from https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/Stack.html
Queue (make your own)
Queue from
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/Queue.html
Deque from
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/ArrayDeque.html
The 3 JCF Maps:
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/HashMap.html
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/TreeMap.html
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/LinkedHashMap.html
The 3 JCF Sets:
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/HashSet.html
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/TreeSet.html
https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/LinkedHashSet.html

To prepare, make sure you have watched and understand concepts & examples covered in all videos posted from the start of the term up to and including W10L2.

Details:
- The exam is designed to be completed in 1 hour and 20 min (class time), but there will be a 10-minute grace period. In other words, it will not be marked late until 2:30. Do not wait till 2:30 to turn it in. Submit by 2:20!
- There will be a 15 minute late period. You can turn it in up to 2:45 with a -10 penalty. Use as an absolute last resort. Anything after 2:45 is recorded as a zero.
- Did you install the correct version of Eclipse and course management software on your computer at the start of the semester?
  http://www.cs.umd.edu/~nelson/eclipse/install_spr_2022/
- If you don't have this exact Eclipse setup and you are not able to submit the exam, that will not be a valid reason for an extension.
- The exam will be posted similar to a class project. You will write code in an Eclipse project and submit as usual. It will be posted at 1PM on piazza.

- You can only post clarification questions in Piazza on exam day and a CMSC 132 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 exam day. Debugging questions, why code is not compiling, why is code not passing a test, are invalid questions to post in Piazza.
- Posting of any kind of code in Piazza (or any other public platform), during the exam period, represents an academic integrity violation and will be reported as such.
- You must work by yourself. Sharing of exam solutions represents an academic integrity violation and will be reported as such. Submissions can be checked with cheating detection software.
- 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 highest scoring 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).
- The exam may be graded based on submit server tests (release and secret) and code inspection (e.g. Style, following rules, etc.). The exact rubric will not be available before the exam. Just follow all the rules to avoid point deductions.