

CSSE 220---Object-Oriented Software Development

Exam 1 -- Parts 2 and 3, September 24, 2021

Allowed Resources on Parts 2 & 3. Open book, open notes, and computer. Limited network access. You may use the network only to access your own files, the course Moodle and Piazza sites (but obviously do not post on Piazza except to instructors) and the course web pages, the textbook's site, Oracle's Java website (API), and Logan Library's online books. You may only use a search engine (like Google) to search within Oracle's Java website - all others uses or accessing websites other than those mentioned above are not allowed.

Instructions. You must disable Microsoft Teams, IM, email, and other such communication programs before beginning part 2 of the exam. Any communication with anyone other than the instructor or a TA during the exam may result in a failing grade for the course.

You must actually get these problems working on your computer. Almost all of the credit for the problems will be for code that actually works. If you get every part working, comments are not required. If you do not get a method to work, comments may help me to understand enough so that you can earn (possibly a small amount of) partial credit.

Submit all modified .java files via Moodle.

Problem Descriptions

Part 2: Small Problems (21 points)

Implement the code for the three functions (7 points each) in `SmallProblems.java`. Instructions are included in the comments of each function.

Part 3: Map and 2D Array Problems (20 points)

Implement the code for the two methods in `MapAnd2DArray.java` – Instructions are included in the comments of each function. Each method in this part is worth 10 points

Testing: JUnit Tests are available for both parts

