**Post-Exam Reflection and Re-work Instructions, steps 1-4:**

**Step** 1. Complete the **Exam Preparation** box.

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| **Exam Preparation**: How did you prepare for the exam? Here simply classify your exam preparations using the following options – circle the options that apply to your preparations. If you feel it necessary, add a summary sentence or two below the table. | |
| **Massed Practice**  (one or two long study sessions)    **Reread/Reviewed Notes or Slides**      **Reviewed Homework Code** (looked over it or reworked familiar problems)      **Old Exam Problems** – worked with helps and no time limit  Other factors  **Too busy to sleep**  **Hungry**  **Emotional stressor** (no need to identify what, but it does help to recognize it if you were under some type of stress) | **Distributed Practice**  (three or more shorter study sessions on several different days)    **Re-organized Notes, Annotated Notes** (identified key concepts or ideas, understanding in your own words)    **Elaborated Homework Problems** (used homework code to spark what-if scenarios and solved them, classified problems, made up new problems and solved them.)    **Timed Self on Old Exam Problems without Helps**  Other factors  **Rested** (got a full night’s sleep before the exam)  **Satisfied (**ate a meal before the exam)  **Stable emotional state** |

Items on the left are less effective and efficient and items on the right have been shown to be effective and efficient. (Note that these are not exhaustive lists, but are representative of commonly reported practices and evidence-based improvements on these practices.)

**Step 2. Missed Problems Chart:** Complete a row of the **Missed Problem Chart** for each question missed. How many points were taken off? What kind of question was it? Why do you think you got it wrong (check all columns that apply)? You can extend the chart on separate paper.

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| Question Missed | Points Lost | Type of Question\* | Misread or Missed Parts | Syntax error (didn’t compile) | Was close (off by one error) | Didn’t understand question | Other | Did Not Complete Question |
| PutTogether (Map and 2D arrays) | 2 | Map and 2D arrays |  |  | I forgot to reset “r”, which I was using to track my column number in the for loop. |  |  |  |
| Graphics Phase 1 | 1 | Graphics and CLS |  |  | I lost the point because code crashed from my work on phase 3. Phase 1 worked fine. |  |  |  |
| Graphics Phase 2 | 1 | Graphics  And CLS |  |  | I lost this point for same reason as Phase 1. Phase 2 worked fine. |  |  |  |
| Graphics Phase 3 | 7 | Graphics  And CLS |  |  |  |  | I was in the process of using hashmaps to store info from setCellColor about which squares had changed color. My method was close to working, just ran out of time to fully implement it. | Did not complete question |
| Graphics Phase 4 | 3 | Graphics  And CLS |  |  |  |  | Was stuck on phase 3 and ran out of time to get to phase 4 |  |
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| \*Question Types | | ARR – array or list  MAP – hashmap | | | STR - String  LOG - logic (loops and ifs) | | CLS – implement class  OTHER (specify type) |  |

**Step 3.**  Answer the questions in the **Action Plan** box.

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| **Action** **Plan:** Write responses to each prompt (numbers 1, 2 and 3 below). Expand this **Action Plan** box as needed. |
| 1) Note patterns from your missed problem chart.    The main pattern was that I did not ration enough time to spend on the graphics problem. I either spent too long on the previous parts of the exam, or took too long to implement phase 3 of the graphics problem.    2) What can you do to better elaborate and organize your knowledge of object-oriented software development? (Review your **Exam Preparation** responses.)      I definitely need to do more practice problems from scratch, but in a timed setting. I need to have that pressure on me so I can get a better feel for how long I should be spending on problems. It’s not that I was incapable of solving the problems because of lack of knowledge; it’s that I wasn’t quick enough with my implementations.    3) How will you prepare differently for exam 2, based on these patterns?    The best way for me to fix these problems, as mentioned in the last question, is to simply do more timed practice on exam-like questions. I understand the material well enough, I just need the practice. |

**Step 4.** We allow you to earn back a percentage of the points you lost as “makeup credit” To receive full makeup credit for a programming problem, you must **re-do and commit a correct solution to Moodle** and for a paper problem, to turn in your original exam along with a neatly hand-written document with the solutions to the problems that you missed (as listed in #2 above). Also explain the concept: for example, if you got a box-and-pointer problem wrong, you might write, “I now know that when you assign one object to another, you have the variable on the left point to the *object* that the variable on the right is pointing to”. *If your solution is incorrect you will not receive partial credit.* Finally, print and submit this paper either in class or under your instructor’s office door.

My main problem in the graphics question that I didn’t finish, (as I later solved on my own outside class), was that my copy threeByThree function did not have the information it needed to know which boxes were colored differently (from the setColor method). I solved this by adding the proper fields to the ThreeByThree class to store which boxes had their color changed. See code for my full solution.