

Patterning Exam 1 Reflection & Revision

One main goal of the midterm exam was to help you better learn the material we have covered so far. Another goal was for you to have an opportunity to show us what you have learned so far. In the spirit of a deliberate and reflective practice of learning, we offer this workshop.

Part I: Collaborative Reflection (during Problem Session)

- Work together in groups of 4 on whiteboards. Be kind and generous to your collaborators and yourself.
- Take turns reading questions out loud in your group. Each question is modified from Exam 1.
- Make sure each group member understands the problem statement and what is being asked for. If you are unsure, make sure you ask clarifying questions.
- Discuss and construct answers to the question. Make sure each person clearly understands the solutions.
- Based on feedback from consultation with a TA or instructor, modify your solution.
- Give each group member time to write down the essential solution features into their notes.

Part II: Individual Revision (due Monday May 5 by 8:30 am)

- All students are welcome to submit an exam revision if they wish. A complete exam revision will follow all the guidelines described below.
 - Download a copy of the Revision Version questions from the program web-site. The Revision Version of the exam will be similar to the original Exam 1 and the modified version you worked on during the Collaborative Reflection, but not identical. The Revision Version will be available by 9:00 pm Thursday May 1.
- 1) You may revise and re-submit any questions from the midterm exam that you choose. You must submit the entire revised question. You must answer the question as asked in the Revision Version.
 - 2) You are welcome to use the original exam, your notes from the collaborative reflection, your notes and books, consult with classmates or tutors, and use any other resources you choose. Only submit work that you personally understand. Your submitted revision should represent your own work and your own learning.
 - 3) Immediately following (and as part of) each of your revised solutions, describe briefly what caused you difficulty¹ (for example, you did not know/understand the related concepts or process, you did not remember the related concepts/process, you did not recognize some key information, you were confused by the wording, you misunderstood/misread the question, etc.) and/or where you made your mistakes. Where possible, suggest a productive, practical strategy to address this difficulty or mistake.
 - 4) In the case of any questions for which you had major difficulty (we trust your judgment on what is major), find items from your texts, notes, lab-work, problem sets, solutions postings, or quizzes in which this material was covered. Make specific reference to these items in your revised solution.
 - 5) Consider the previous material and your work on the exam and revision. Briefly describe your new understanding of the concept/methods involved in the particular problem.

Steps 3), 4), and 5) are key features to the learning process of this Revision opportunity. Revised Solutions without steps 3), 4), and 5) addressed will not be reviewed by faculty.

- 6) Neatly present your revised solution on separate sheets of paper. These should be standard sheets of paper, neatly collected together and organized – please demonstrate care in the presentation of your revision.
- 7) Number each problem clearly, and assemble in numerical order. Staple your papers in the upper left hand corner, with your name in the upper right hand corner of the first page. Submit your original exam with your revision by the due date above. Paper clip (don't staple) the two documents together.

¹ There can be a tendency in this process to beat yourself up and feel bad, or to make excuses. That is not our intention. However, these and related behaviors are understandable, and we sympathize with these feelings and responses. They are generally not very productive to your learning process. Instead, please provide as best you can an honest and accurate accounting of the nature of your difficulty.