1. **TEAM:** Do exercise E131 on page 249. (3 points)
2. **TEAM:** Do exercise E132 on page 252. (3+3 points)
3. **TEAM:** Do exercise E133 on page 252. (5 points)
4. **TEAM:** Prepare a UML class diagram that reflects your design for P2. (5 points)
5. **TEAM:** Do exercise E134 on page 252. (20 points) Note that there are two reasons for doing this exercise. One is to restructure your application to make it easier to include GUI elements. The other is to experience something that happens often in the real-world --- the third party software/framework on which your application is based has changed, and you need to adapt your application accordingly.
6. **TEAM:** Prepare a UML class diagram that reflects your design for P3. (5 points)
7. **TEAM:** Based on the class diagrams from questions 4 and 6, list all the changes that you had to make in terms of the interfaces, classes, and methods changed (if any). (3 points)
8. **INDIVIDUAL:** Do exercise E148 on page 282, parts a and b. Each team member must do this task separately. Read section 7.6 of your textbook when you do this exercise.(8 points)
9. **TEAM:** Do exercise E148 parts, parts c and d. Read section 7.6 of your textbook when
10. **TEAM:** Do exercise E149, page 283. (15 points)

Green = Done

Orange = Done but I am not sure if it is right

Red = Not done

## 4. Self evaluation and peer review (10 points)

Type this up based on the instructions given in a previous document describing the entire group project.

## 5. What to turn in

There are two types of things to turn in --- team artifacts and individual artifacts.

### 5.1. Team artifacts

Team artifacts are to be submitted through RamCT, once for each team. The submission deadline is April 22, 11:59 pm. Any team member can do the submission. Please check to see that the files have actually been submitted, not just uploaded.

1. Code: P3.jar
2. Document: P3.pdf

### 5.2. Individual artifacts

Individual artifacts are to be printed and submitted in class on April 23. Emailed self evaluations and reviews will **NOT** be accepted.

1. Answer to question 8
2. Self evaluation and peer reviews