

Alternative Take-Home for Homework 6

This document describes an alternative take-home portion for Homework 6. The lab portion is the same as the regular Homework 6. Rather than writing test cases for Self-Checkout, you will be continuing the Triangle class that we started as part of the coding dojo on February 14, 2011.

Step 1. The ApprovalTests plugin is not installed on the lab computers and part of your task is to get this set up of your own machine.

A zip file for ApprovalTests is provided on the course web site. Download and install this in your Eclipse workbench.

Step 2. Create a project with the files from the triangle package.

Step 3. Clean up and consolidate the existing code. In particular, add a "Point" class that stores x- and y-coordinates for a single point. Refactor the code, so that it uses the Point class instead of two integers.

Step 4. Continue with the Test-Driven Development kata. The parts of the kata are as follows.

1. A side has length.
2. A side has endpoints.
3. A triangle has 3 corners.
4. A triangle has 3 sides.
5. A triangle has a perimeter.
6. A corner on a triangle has 2 touching (adjacent) sides.
7. A corner has an opposite side.
8. A corner has an angle between the 2 touching sides. (Hint: use law of cosines)
9. A triangle has 3 angles.
10. A triangle knows if it is a right-angle triangle.

During the dojo, we finished Parts 1-5 and started Part 6. Complete Part 6 and the remaining parts of the kata.

This isn't part of the assignment, but other plugins that were used during the dojo were Coverage (part of ECLemma) and Easy Explore (which requires a diff function that is widely available, for example, through JUnit or TortoiseSVN).

Handing In Your Assignment

Your assignment must be submitted electronically to checkmate.ics.uci.edu. You will submit **three** files.

1. Your report in Report.doc or Report.pdf. The report should describe your changes to the code and any other information that you want the TA to know about. In other words, if you want credit for your work, you should describe it here.
2. A zip file containing all of the application and test code for the Triangle package.
3. A zip file containing all the Approvals data.

Do not zip these two files into one big .zip file.