Two-Dimensional Raymarching Lab Grading Rubric

Criteria	Grade
Program successfully compiles and executes	Out of 25 points.
without any erroneous errors.	
Program has high-quality style (i.e.,	Out of 15 points.
appropriate comments and indentation).	
RectangleObject, CircleObject,	Out of 5 points.
and CollisionObject are correctly	
implemented. RectangleObject and	
CircleObject both appropriately extend	
the superclass CollisionObject (step 3).	
A list of CollisionObjects exists in the	Out of 5 points.
RaymarcherPanel class (step 4).	
The CollisionObjects list is populated	Out of 5 points.
with random shapes (step 5).	
The Camera and March classes are	Out of 5 points.
correctly created.	
The Drawable interface is used.	Out of 5 points.
CollisionObject, Camera, and March	
implement Drawable.	
The MouseMotionListener is created	Out of 5 points.
and correctly instantiated and implemented.	
A method to compute the minimum distance	Out of 10 points.
from the cursor to all objects in the scene is	
correctly implemented.	
A circle extends out from the cursor to the	Out of 5 points.
closest object in the scene, measured from the	
method created in the previous step.	
The ray is constructed correctly where each	Out of 10 points.
circle is drawn at the appropriate distance.	
The ray can be rotated via user input (either	Out of 5 points.
mouse or keyboard).	

This lab is very progressive, meaning that each step builds on top of the previous. This being the case, we decided to weigh a generous portion of the points towards successful compilation and style. When grading, use your best judgment to determine if full points ought to be awarded for a criterion. For the steps that construct the ray marcher (all but the first two), these will, generally, be "all or nothing" points, meaning that if it was successfully implemented, they get the points. If a clear effort was made, then partial credit may be awarded.