Exercise #9: Level of Details

Modify the file you finished in Exercise 6, Exercise 7, OR Exercise 8 to create a 'SwitchTest.java' file that has the following additional features:

- 1. The (shape) detail of the fireball changes according to its distance to the viewer.
 - Set the number of triangle divisions of the fireball to 5 for a distance that is bigger than 3 meters.
 - Double the number of divisions when the distance from the fireball to the viewer decreases to 3, 1.5, and 0.7 meters or less.
- 2. (Optional) Use OrientedShape3D to make the plane tracking the viewer by rotating about its origin.
- 3. (Optional) Use Switch to define a key 'i' that enables and disables the tracking of the plane to the viewer.