Exercises 2/26/'15

The following exercises require you to look up documentation on JOptionpane class:
http://docs.oracle.com/javase/7/docs/api/javax/swing/JOptionPane.html
and graphics2d objects.

1. Create a MySquareIcon class that implements the icon interface. The call
        MySquareIcon icn=new MySquareIcon(n)
should create a square of size n by n. Use it to program a dialog box as shown below.
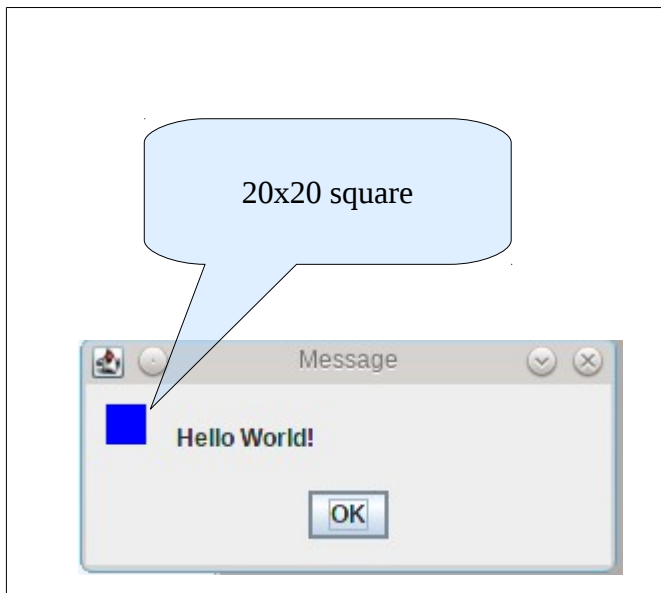
2. Create a triangle icon class, MyTriangleIcon, that implements Icon interface. The constructor of the
icon should take one parameter, x, and create a triangle whose base is x and height is x/2.
Use this class to create an options dialog (JOptionPane.showOptionDialog) like:
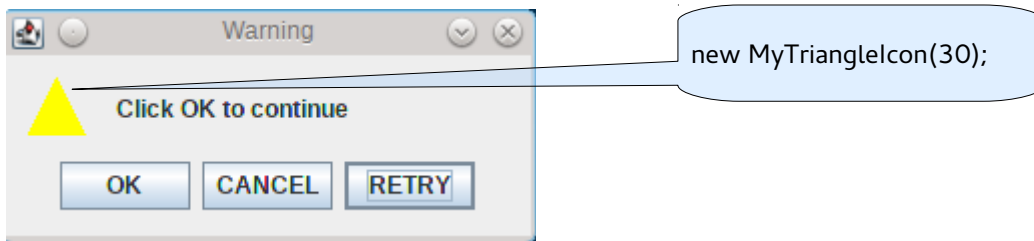

You will need to look up documentation for JOptionPane.showOptionDialog
Of course the buttons don't have to do anything interesting.

3. Modify the MySquareIcon class in #1 to also implement the Comparator interface to enable comparison of the square icon sizes. To test your class, write a test program that takes two integers as command line arguments, creates two icons, and displays the smaller one first, followed by the larger one as shown. Becasue the Message Dialog boxes are modal, the second one appears only after you close the first.

>java TestSquareIcon 120 60
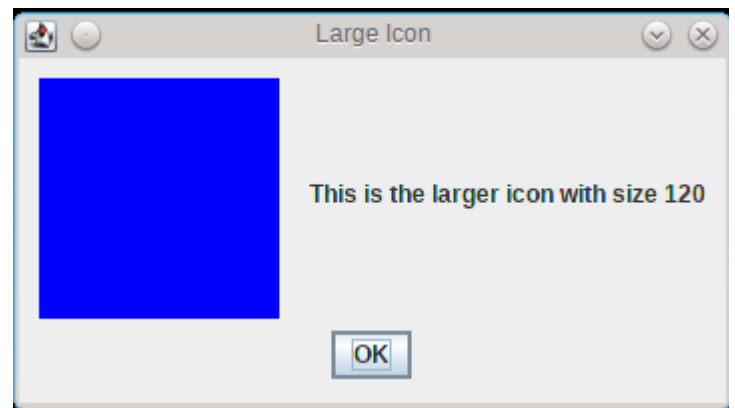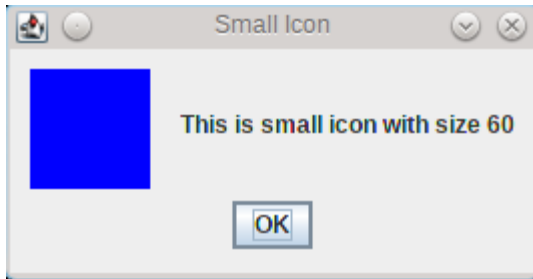
> java TestSquareIcon 30 90
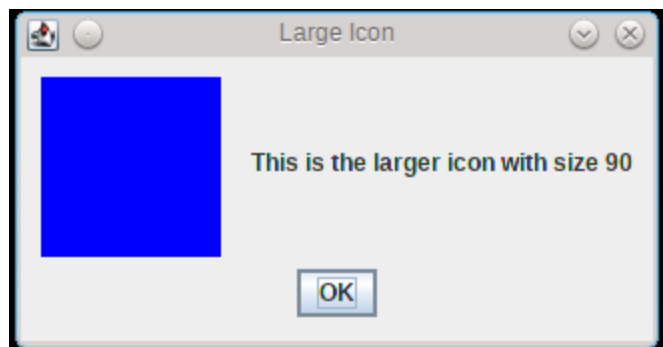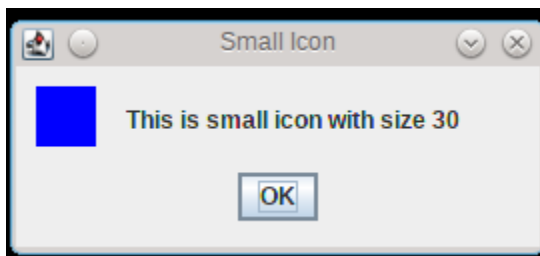
Note: You can do this exercise without implementing a Comparator, by just parsing the command-line input args and deciding the smaller and bigger one and doing things accordingly. But the point is not to do it that way, but rather use the Comparator.