

Assignment 7 - Loopy Patterns

CSC204 Spring 2017

Due Friday, March 17, 2017

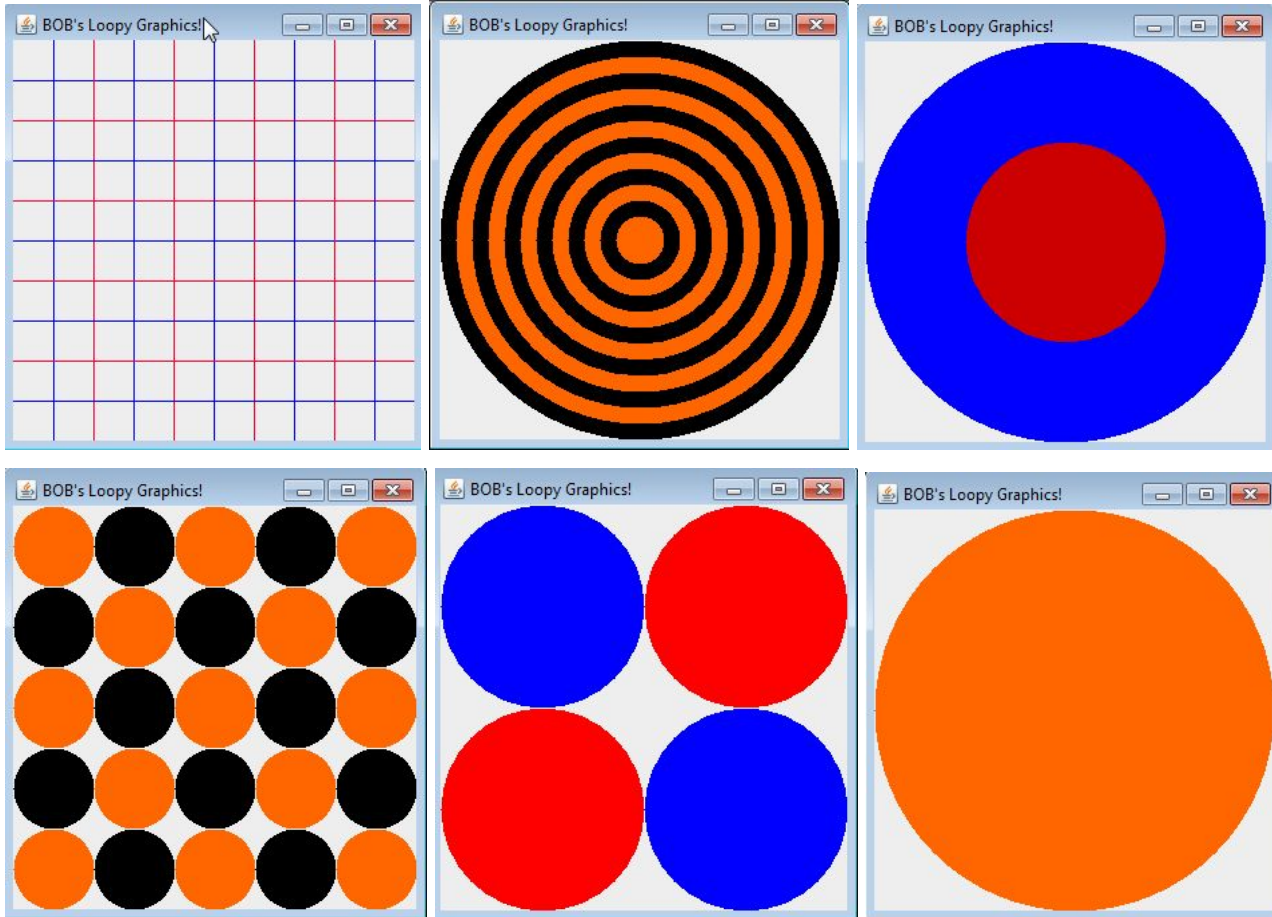
You are to individually enhance the Loopy.java and LoopyPattern.java files found in our blackhawk folder. These files demonstrate the creation of graphics through loops. At first you will just add some verification code around each input read from the user. Next you will write the code for two specified (below) loopy graphics. Finally, you will demonstrate your creativity and create at least two more loopy graphics of your own.

Setup:

Create a new Eclipse project A7. Copy Loopy.java and LoopyPattern.java, from our Blackhawk folder, into your new A7 workspace.

Todo:

- First thing you should do is edit the existing comments to reflect your work. As you add to this code, you should add more comments.
- Run the file and see how it works. The only 'case' that should work right now is graphic "0".
- Make sure you understand the existing code.
- You should note in main, there are some comments stating you should improve this code. In particular, on each input line, you need to place a loop around that scan and only allow the user to enter the correct range of values. Think while loop.
- In the LoopyPattern file, you need to write the code for:
 - switchColor() method needs to be coded. This code should simply change 'currentColor' to the other color (color1 or color2).
 - Concentric Circles - should be "count" circles, centered on the screen, evenly spaced, getting smaller, and alternating between the two colors.
 - Grid of Circles - should be count rows, and count columns, of the same sized circles. These circles should alternate colors. Note, when you change from row to row, you need to alternate the color in that direction, too. If the count is even, you might need to switchColors() an extra time.
 - Create two more loopy graphic patterns, and adjust main to reflect your choices.
- Here are some sample graphics:



Deliverables:

- When complete, you should upload your A7's src folder to our shared Google folder, and rename it A7..