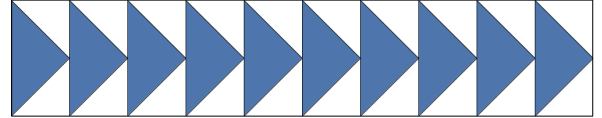


Name: _____

Lab 7 Worksheet

Exercise 1

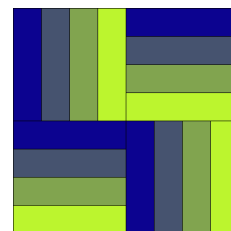
Answer the loop questions for this sketch. Also label specifically what changes using the picture in that row.



what is repeated?	
what changes from one repetition to the next?	
how do things start?	
how do things change?	
when do you keep going?	
is this a counting loop or a repeat-as-long-as pattern?	

Exercise 2

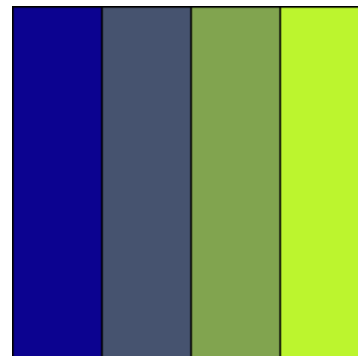
Start with the block as a whole – there are two copies each of the horizontal stripe pattern and the vertical stripe pattern. Two copies of something involving multiple shapes means a drawing function – answer the function questions below.



what is being drawn?	what differs from one copy to the next?
horizontal stripe pattern	
vertical stripe pattern	

How is it drawn? Label the “what differs” things and other known quantities (such as the dimensions of each pattern) in the pictures.

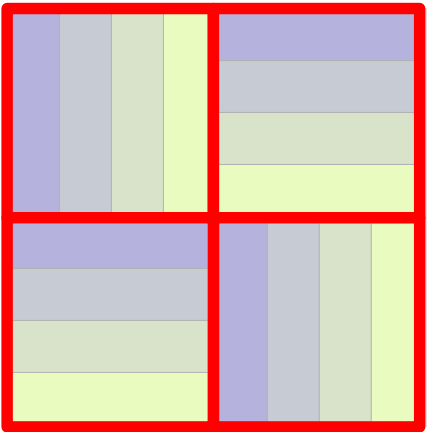
(The loops to actually draw each set of stripes are addressed on the next page.)



(continued on the next page)

What are the specific values for the “what differs” things?

Each red-outlined box shown to the right represents the pattern drawn by one use of the horizontal or vertical stripe functions. Label the picture with the specific values for each function call as well as which function (horizontal or vertical) is used to draw the pattern in each box.



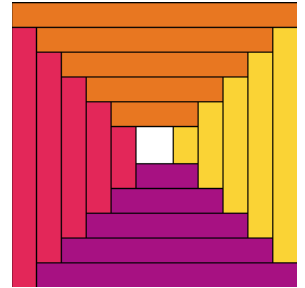
Getting back to the details of “how is it drawn?”, answer the loop questions separately for the horizontal and vertical stripe patterns. Also label specifically what changes in the pictures in those rows.

	horizontal stripe pattern	vertical stripe pattern
what is repeated?		
what changes from one repetition to the next?		
how do things start?		
how do things change?		
when do you keep going?		
is this a counting loop or a repeat-as-long-as pattern?		

Exercise 3

Answer the loop questions for this sketch. There's more than one way to break the pattern down into loop(s) so there are two columns below (for two loops) and another copy of the table on the next page – depending on what you decide on for your loops, you may not need all of the columns.

Also label exactly what changes in each loop on a drawing – either make a little sketch in that row or use the picture to the right.



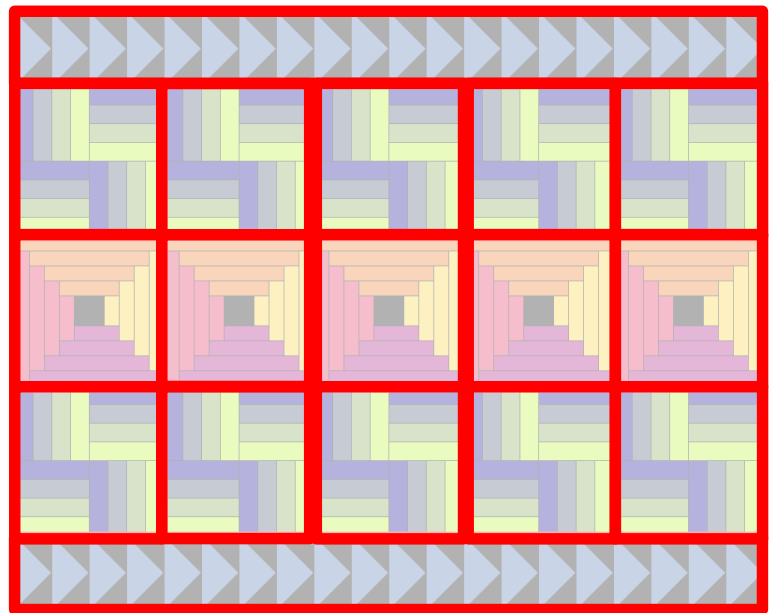
identify what part of the block is being drawn by the loop		
what is repeated?		
what changes from one repetition to the next?		
how do things start?		
how do things change?		
when do you keep going?		
is this a counting loop or a repeat-as-long-as pattern?		

(continued on the next page)

identify what part of the block is being drawn by the loop		
what is repeated?		
what changes from one repetition to the next?		
how do things start?		
how do things change?		
when do you keep going?		
is this a counting loop or a repeat-as-long-as pattern?		

Exercise 4

Each red-outlined boxes represents the pattern drawn by one use of the drawing functions you'll create in this exercise.



Answer the function questions below (and continued on the next page) for each of the drawing functions.

what is being drawn?	what differs from one copy to the next?			
strip of flying geese				
single rail fence block				

(continued on the next page)

single log cabin block	

Now consider the entire quilt, and answer the loop questions below using the drawing functions as the building blocks.

There's more than one way to break the pattern down into loop(s) so there are two columns below (for two loops) and another copy of the table on the next page – depending on what you decide on for your loops, you may not need all of the columns.

identify what part of the quilt is being drawn by the loop		
what is repeated?		
what changes from one repetition to the next?		
how do things start?		
how do things change?		
when do you keep going?		
is this a counting loop or a repeat-as-long-as pattern?		

(continued on the next page)

identify what part of the quilt is being drawn by the loop		
what is repeated?		
what changes from one repetition to the next?		
how do things start?		
how do things change?		
when do you keep going?		
is this a counting loop or a repeat-as-long-as pattern?		