Instructions

Your program should contain six functions:

init() which takes in no parameters and moves the turtle to -200, -100

choose_color() which takes in the number of triangles drawn and returns a color.

draw_triangle() which takes in a size and a color and then draws a triangle of that color (fill color, not pen color) and size and returns the parameter of the triangle.

draw_row() which takes in the number of triangles in each row, and the size of each triangle and draws a row of triangles that are all side by side (see output for reference). This function should return the parameter of all triangles in the row.

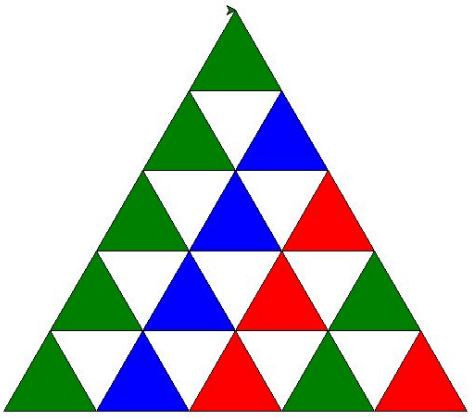
draw_all_triangles() which takes in the number of triangles on the bottom row and the size of each triangle, and draws rows of triangles stacked on top of each other until there is only 1 triangle per row. This function should return the parameter of all triangles drawn.

main() which takes in no parameters, but asks the user for the number of triangles in the bottom row and the size of each triangle and draws the shape in the output section and prints the total perimeter of all triangles drawn.

Your program should make use of TDD for each function along the way.

Output

Here is the expected output of passing 5 for the number of rows and 100 for the size:



Feel free to use whatever colors you want.