Nikeem Dunkelly-Allen, Thursday, Lab 2

#include "library.h"

void draw\_star(const int length){

start\_shape();

turn\_right\_by\_degrees(162);

draw\_distance(length), note\_position();

turn\_left\_by\_degrees(72);

draw\_distance(length), note\_position();

turn\_right\_by\_degrees(144);

draw\_distance(length), note\_position();

turn\_left\_by\_degrees(72);

draw\_distance(length), note\_position();

turn\_right\_by\_degrees(144);

draw\_distance(length), note\_position();

turn\_left\_by\_degrees(72);

draw\_distance(length), note\_position();

turn\_right\_by\_degrees(144);

draw\_distance(length), note\_position();

turn\_left\_by\_degrees(72);

draw\_distance(length), note\_position();

turn\_right\_by\_degrees(144);

draw\_distance(length), note\_position();

turn\_left\_by\_degrees(72);

draw\_distance(length), note\_position();

fill\_shape();

}

void draw\_texas(){

set\_pen\_color(color::red);

fill\_rectangle(200, 250, 500, 500);

set\_pen\_color(color::blue);

fill\_rectangle(0, 0, 200, 500);

set\_pen\_color(color::white);

move\_to(100, 125);

draw\_star(75);

}

void row\_of\_6\_stars(const int n, const int x, const int d){

if (n > 0){

set\_heading\_degrees(0);

draw\_star(x);

move\_relative(d, 0);

row\_of\_6\_stars(n - 1,x, d);

}

}

void row\_of\_5\_stars(const int n, const int x, const int d){

if (n > 0){

set\_heading\_degrees(0);

draw\_star(x);

move\_relative(d, 0);

row\_of\_5\_stars(n - 1, x, d);

}

}

void block\_of\_stars(const double x, const double d){

row\_of\_6\_stars(6, x, x\*6);

set\_heading\_degrees(0);

move\_relative((-x\*d)+d\*1.50, 2.5\*x);

row\_of\_5\_stars(5, x, x\*6);

}

int wx = 1200;

int wy = 650;

void draw\_flag(){

set\_pen\_color(color::blue);

fill\_rectangle(0, 0, 480, 350);

set\_pen\_color(color::white);

move\_to(40, 10);

block\_of\_stars(13, 75 / 2);

move\_to(40, 80);

block\_of\_stars(13, 75 / 2);

move\_to(40, 150);

block\_of\_stars(13, 75 / 2);

move\_to(40, 220);

block\_of\_stars(13, 75 / 2);

move\_to(40, 290);

row\_of\_6\_stars(6, 13, 78);

set\_pen\_color(color::red);

fill\_rectangle(480, 0, 1200, 50);

fill\_rectangle(480, 100, 1200, 150, color::red);

fill\_rectangle(480, 150, 1200, 200, color::white);

fill\_rectangle(480, 200, 1200, 250, color::red);

fill\_rectangle(480, 250, 1200, 300, color::white);

fill\_rectangle(480, 300, 1200, 350, color::red);

fill\_rectangle(0, 350, 1200, 400, color::white);

fill\_rectangle(0, 400, 1200, 450, color::red);

fill\_rectangle(0, 450, 1200, 500, color::white);

fill\_rectangle(0, 500, 1200, 550, color::red);

fill\_rectangle(0, 550, 1200, 600, color::white);

fill\_rectangle(0, 600, 1200, 650, color::red);

fill\_rectangle(0, 650, 1200, 700, color::white);

}

Window Size was (1200,650)



