Lab Exercises

Motion
Move two shapes continuously, but constrain their positions to the display window.
Move three shapes on different curves to create a kinetic composition.
Use the transformation functions to animate a shape.

Mechanical Motion
Make a shape move with numbers returned from sin() and cos().
Develop a kinetic composition using the concept of phase shifting.

Organic Motion
Use code 32-06 as a base for creating a more advanced organism.

```cpp
float x = 0.0; // X-coordinate
float y = 50.0; // Y-coordinate
float angle = 0.0; // Direction of motion
float speed = 0.5; // Speed of motion

void setup() {
    size(100, 100);
    background(0);
    stroke(255, 130);
    randomSeed(121); // Force the same random values
}

void draw() {
    angle += random(-0.3, 0.3);
    x += cos(angle) * speed; // Update x-coordinate
    y += sin(angle) * speed; // Update y-coordinate
    translate(x, y);
    rotate(angle);
    line(0, -10, 0, 10);
    line(0, 10, 0, -10);
}
```