```
void setup() {
//size(500, 500); //test environment
size(displayWidth, displayHeight); //wall = viewport
frameRate(2);
}
void draw() {
 // GLOBALS
 background(#FAF5ED); //off-white (aka wall-colored)
 smooth(); //anti-alias
 stroke(#777777, 100); //graphite-ish, 25alpha
 strokeWeight(1);
 noFill();
 //Draw line
   line(width, 0, width * 0.75, height);
   strokeWeight(2);
 //Generate 100 random points
   //init variables
   int rows = 100; //rows
   int cols = 2; //cols
   int i = 0;
   //create a 2d array for x1,y1 coordinates
   float [][] points = new float [rows][cols];
   // float [][] points = new float[100][2];
   // forLoop to create 100 points at random locations
   for (i=0; i<100; i++) {
     points[i][0] = random(width-50); // puts a random int<width-50 in row</pre>
     points[i][1] = random(height-50); //puts a random int<height-50 in row</pre>
     println(points[i][0] + ",", points[i][1]); //coord log
     stroke(0);
     point(points[i][0], points[i][1]); //"place fifty points at random"
   }
   //Rewrite x-value of pt1 to a random point in the right most quarter of t
   points[0][0] = random((width/4)*3,width);
   println(points[0][0] + ",", points[0][1]);
```