```
public class App {
public static void drawLine(int x1, int y1, int x2, int y2) {
   int dx = x2 - x1;
   int dy = y2 - y1;
   int slopeError = dy - dx;
   int x = x1;
   int y = y1;
   int arraySize = Math.max(dx, dy) + 1;
   String[] plotPoints = new String[arraySize];
   plotPoints[0] = "(" + x + ", " + y + ")";
   for (int i = 1; i < arraySize; i++) {
      while (slopeError >= 0) {
        y++;
        slopeError -= dx;
      X++;
      slopeError += dy;
     plotPoints[i] = "(" + x + ", " + y + ")";
   }
   for (String point : plotPoints) {
      System.out.println(point);
   }
}
public static void main(String[] args) throws Exception {
   drawLine(1, 1, 8, 5);
}
```

}