```
This class uses the Color class, which is part of a package called awt,
import java.awt.Color;
public class Runigram {
       imageOut = flippedHorizontally(tinypic);
       In in = new In(fileName);
       in.readString();
       in.readInt();
```

```
for ( int row = 0 ; row < numRows; row++ ) {</pre>
            int blue = in.readInt();
    System.out.print("(");
    System.out.printf("%3s", c.getBlue()); // Prints the blue component
            print(image[i][j]);
public static Color[][] flippedHorizontally(Color[][] image) {
```

```
Color[][] imageFlipHorizo = new Color[rows][columns] ;
            imageFlipHorizo[i][j] = image [i][columns - 1- j];
public static Color[][] flippedVertically(Color[][] image) {
    Color[][] imageFlipVartically = new Color[rows][columns];
            imageFlipVartically[i][j] = image[rows - 1 - i ][j];
    return imageFlipVartically;
public static Color luminance(Color pixel) {
    int red = pixel.getRed();
    int blue = pixel.getBlue();
    Color grayColor = new Color (lum, lum, lum);
    return grayColor;
```

```
imageGrayScaled[i][j] = luminance(image[i][j]) ;
   return imageGrayScaled;
public static Color[][] scaled(Color[][] image, int width, int height) {
```

```
colors. Each r, g, b, value v in the returned color is calculated using the
 int blue = (int) (alpha * c1.getBlue() + (1 - alpha) * c2.getBlue());
 int imageHeight = image1[0].length;
 for ( int i = 0 ; i < imageWidth ; i++ ) {
```

```
Morphs the source image into the target image, gradually, in n steps.
public static void morph(Color[][] source, Color[][] target, int n) {
    Color[][] scaledTarget = scaled(target, source[0].length, source.length);
        Color[][] sourceImage = blend(source, scaledTarget, alpha);
        display(sourceImage);
       StdDraw.pause(500);
    StdDraw.setTitle("Runigram 2023");
    int width = image[0].length;
    StdDraw.setCanvasSize(height, width);
   StdDraw.setYscale(0, height);
   StdDraw.enableDoubleBuffering();
public static void display(Color[][] image) {
    int height = image.length;
            StdDraw.setPenColor( image[i][j].getRed(),
                                 image[i][j].getBlue() );
           StdDraw.filledSquare(j + 0.5, height - i - 0.5, 0.5);
   StdDraw.show();
```