4Ba

Complete method `countWhitePixels` below.

```
/** @return the total number of white pixels in this image.
 *  Postcondition: this image has not been changed.
 */
public int countWhitePixels()
{ int count = 0;
  for (int x=0; x<pixelValues.length; x++)
  {
    for (int y=0; y<pixelValues[x].length; y++)
    {
      if (pixelValues[x][y] == 255)
        count++;
    }
  }
  return count;
}
```

Part (b) begins on page 22.

4Bb

Complete method `processImage` below.

```
/** Processes this image in row-major order and decreases the value of each pixel at
 *  position (row, col) by the value of the pixel at position (row + 2, col + 2) if it exists.
 *  Resulting values that would be less than BLACK are replaced by BLACK.
 *  Pixels for which there is no pixel at position (row + 2, col + 2) are unchanged.
 */
public void processImage()
{
  for(int x=0; x< pixelValues.length-2; x++)
  {
    for(int y=0; y< pixelValues.length-2; y++)
    {
      pixelValues[x][y] = pixelValues[x][y] - pixelValues[x+2][y+2];
    }
  }
  return pixelValues;
}
```