1. Area Fill
2. Print out of the image *img22gd2.tif*

A picture containing bird, standing, parrot, close

Description automatically generated

*Figure 1: img22gd2.tif*

1. Print out of the image showing the connected set for s = (67, 45), and T = 2

![A black and white image of a person holding an object

Description automatically generated with low confidence]()

*Figure 2: Connected Set for T = 2*

1. Print out of the image showing the connected set for s = (67, 45), and T = 1

![A black and white image of a person's face

Description automatically generated with medium confidence]()

*Figure 3: Connected Set for T = 1*

1. Print out of the image showing the connected set for s = (67, 45), and T = 3

![A picture containing silhouette

Description automatically generated]()

*Figure 4: Connected Set for T = 3*

1. Listing of C Code: *\*See Next Page\**
2. Image Segmentation
3. Print outs of the randomly colored segmentation for T = 1, T = 2, and T = 3



*Figure 5: Colored Segmentation for T = 1*

A picture containing text

Description automatically generated

*Figure 6: Colored Segmentation for T = 2*

A screenshot of a computer

Description automatically generated with low confidence

*Figure 7: Colored Segmentation for T = 3*

1. Listing of the number of regions generated for each of the values of T

*Table 1: Pixel Counts*

|  |  |
| --- | --- |
| **T Value** | **Region Count** |
| 1 | 36 |
| 2 | 41 |
| 3 | 23 |

1. Listing of C Code: *\*See Next Page\**