

Problem Statement

Find the connected components in the image Connected.bmp.

- 1) Display the image
- 2) Perform thresholding if necessary to create binary image. Display the image.
- 3) Find the connected components using the component labeling two-pass algorithm assuming 4 connectivity. How many components are there?
- 4) Substituting the pixel values in binary image with the component number they belong to, and mapping the component numbers to the full dynamic range of 8 bits display the image to demonstrate the found connected components.