













• Training

- For all training samples of each model object
 - Segment the image
 - Compute region properties (features)
- Recognition
 - Given an image of unknown object,
 - Segment the image
 - Compute its feature vector
 - Compare with the training set

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- 1. Scan the binary image left to right, top to bottom.
- 2. If there is an unlabeled pixel with a value of '1' assign a new label to it.
- 3. Recursively check the neighbors of the pixel in step 2 and assign the same label if they are unlabeled with a value of '1'.
- 4. Stop when all the pixels of value '1' have been labeled.

Figure 3.7: Recursive Connected Component Algorithm.

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