Image Segmentation #1



Consider the following binary image where ${\bf 0}$ is the background, and ${\bf 1}$ represents a pixel on an object.

| 000110001010 | | | |
|--------------|--|--|--|
| 111011110001 | | | |
| 111010010010 | | | |
| 10000000100 | | | |

If we segment this image on a model based on simple **4 pixel connectivity**, how many 4-connected objects do you obtain? Enter the appropriate integer in the text box below.

Alternatively, you may submit a program which computes and displays the required integer.