Lesson 4 – Student Assignment

Take a look at this simple picture. How would you store the data into an array. Keep in mind, that if the pixel is occupied, the hex code is #000000 and if the pixel is not, then the code is #FFFFFF.

Explain how you would store this image into the computer’s memory?
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Write a nested for loop that would store this image into a 2 dimensional array:
How could I take this image and rotate it 90° counterclockwise? Explain the process you would use.

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What do you notice about the relationship between x and y coordinates? Is there an efficient way to implement this rotation?

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Could you make other rotations? If so, what would you have to do?