

Assignment 3

CS4442B

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1. 2309126
2. 2148042
3. -3366731
4.
 - a. -912295
 - b. 127999
 - c. lift: intelligentResize(im, -20, -100, w, 0, 0);
 - d. guy: intelligentResize(im, -100, 0, w, 0, 0);
 - e. lift: intelligentResize(im, 100, 0, w, 0, 0);
5. Implemented this function according to the class notes, but the sigma calculation is somehow not working.
6. The idea for this was to create a radial mask that will increase the cost of the middle and outward pixels. Therefore, when trying to resize images where the center of attention is the middle of the picture, the algorithm tries to avoid modifying the central seems. The function was applied to the face picture with the same inputs as question 4.b. The result is saved under "myFaceResized.jpg". The algorithm is in the file "myIntelligentResize.m" and definition to the function is function [imOut] = myIntelligentResize(im, v, h, w, m, x, y), where im, v, h, and w are the same input values from the normal "intelligentResize", while m, x, and y correspond to a constant for the waits of the mask value, width, and height of the ellipse.
7. Images are inside the zip file.