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#### Question 4

##### Open an image file

```
close all; clear; clc;
filename = uigetfile({'*.jpg;*.tif;*.png;*.gif;*.pgm','All Image
Files';...
    '*.','All Files' }, 'Pick an Image File');
```

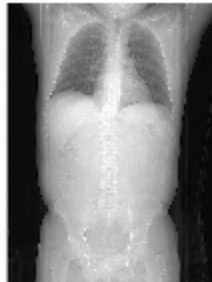
##### Flip the original image upside-down, left side-right, and compute the negative

```
I = imread(filename);
I2 = imcomplement(I);           % negative transform
I3 = fliplr(I);                 % horizontal flip
I4 = flip(I);                   % vertical flip
```

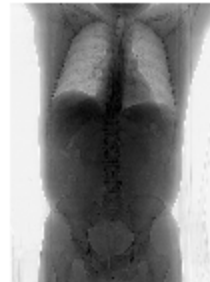
##### Display the four images in a 2x2 arrangement

```
subplot(2,2,1), imshow(I); title('Original Image');
subplot(2,2,2), imshow(I2); title('Negative Transform');
subplot(2,2,3), imshow(I3); title('Horizontal Flip');
subplot(2,2,4), imshow(I4); title('Vertical Flip');
```

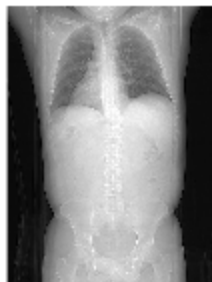
**Original Image**



**Negative Transform**



**Horizontal Flip**



**Vertical Flip**

