Obtain the images camera9.bin and camera99.bin from the course web site. These are 256 × 256 gray scale images with 8 bits per pixel. They have been corrupted by salt-and-pepper noise.

Write a program to implement a gray scale median filter, a gray scale morphological opening, and a gray scale morphological closing. In all cases, use a $3 \times 3$ square structuring element (window).

To handle edge effects, set output pixels equal to gray level zero when the structuring element hangs over the borders of the image.

Turn in:

1. A listing of your program.

2. Printouts of the two original images and the results of applying the median, open and close operations to the original images.

3. A one page discussion of how and why the results of the different operators are different.

DUE: 4/30/2018, 11:59 PM