Write a script (proj06.m) that reproduces the results on the following two pages. The original image and the seven created images should be stored in the current directory. The images should be named img_a.png through img_h.png. Reproduce the results exactly. In some cases you will need to scale the result of an operation. When the script is run the original image should be displayed in one window while the image resulting from the latest operation is displayed in a second window (only two image windows should be used). Use the `pause` command to delay three seconds between showing results in the second window. Use `title` to properly title the images as they are displayed.

1. The first image is the original image `Fig0343(a)(skeleton_orig).png`
2. The second image is the Laplacean of the first image.
3. The result of adding the previous two images.
4. The fourth image is the Sobel gradient of the first image.
5. The result of smoothing the previous image with a 5 x 5 averaging filter.
6. A mask image formed by the product of images 4 and 5.
7. A sharpened image obtained by adding the original image and the mask in the previous step.
8. The final image is obtained by applying a power-law transformation to image 7.

Submit the source code (proj06.m) in a zip or tar archive via the submission system.