

1. Please use a self-designed **Lowpass Gaussian Filter Kernels** to cancel the shaded pattern noise of the image, 'checkerboard1024-shaded.tif'. Please describe the your lowpass Gaussian filter kernels, shading noise pattern as Fig. 3.42 (b), final corrected image without shading noise pattern as Fig. 3.42 (c) and print out the source code? (10)
2. Repeat (1) steps in the image 'N1.bmp' (10)
3. Please **comment** and **compare** your two self-designed **Lowpass Gaussian Filter Kernels**? (10)