3. Filtering in frequency domain

Implement the <u>ideal</u>, <u>Butterworth and Gaussian lowpass and</u> <u>highpass filters and compare the results under different parameters using the image characters_test_pattern.tif (this image file can be found at the ftp server ftp://ftp.cs.sjtu.edu.cn</u>: 990/lu-ht/DIP/images) as the test pattern.