

Question 1

Average Filtering

1. Implement the average filtering by two 1-D masks (instead of one 2D mask). Load the attached image (lenna.png) to test your average filtering. You can load and write images and convert RGB images to grayscale images with OpenCV functions.
2. **Submission:** Submit your code and images which are produced by 3×3 , 5×5 , 7×7 , 9×9 , 11×11 averaging masks.
3. **Hint:** You must convert the image into grayscale first, then pass the grayscale image to your averaging filtering program.