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Image Processing Lab

Quiz-1

1) True

2) 2

3) $s = sqrt(r)$ will produce a better image

4) No

5) Yes

6) With arithmetic mean filter, the image would finally completely blur out.
With median filter, it will only change on first application, and remains same after that on applying it again and again

7) True

8) (a) $$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \times \frac{1}{9}$$

(b) $$\frac{1}{16} \times \begin{bmatrix} 1 & 2 & 1 \\ 2 & 4 & 2 \\ 1 & 2 & 1 \end{bmatrix}$$

c) $$\times \begin{bmatrix} -1 & -1 & -1 \\ -1 & 8 & -1 \\ -1 & -1 & -1 \end{bmatrix}$$

9) False

10) Mean filter