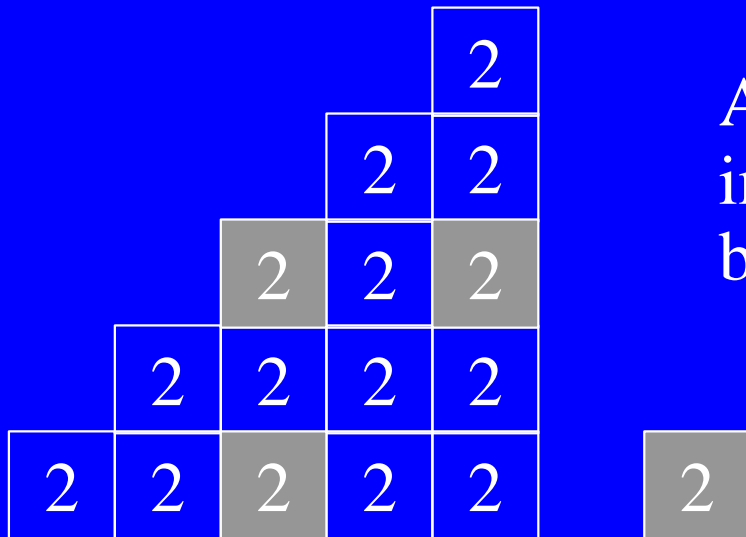


Question



Assume 0 outside the image, and sampling frequency be 1.

Convolve the image at the pixels filled with gray using the discrete approximation of the Laplacian:

$$\begin{array}{ccc} & 1 & \\ 1 & -4 & 1 \\ & 1 & \end{array}$$