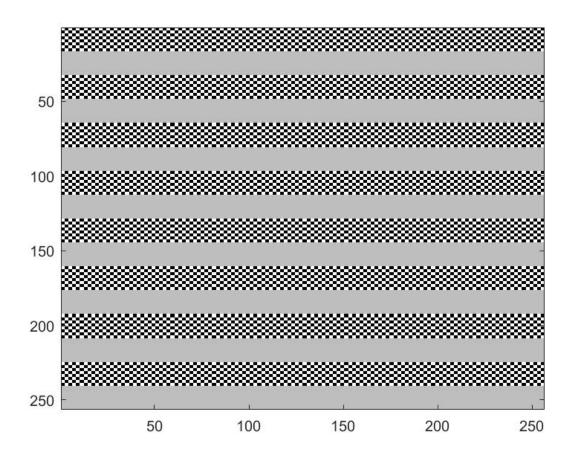
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Q#1:

The image of matching gray level is formed by concatenating the checkerboard pattern with a gray level.



<u>Q#2:</u>

expression relating the matching gray level to the gamma of monitor is as follows:

expression relating the matering gray level to the gamma of monitor is as for	
re know that 19 - 1255 (9)	
Ig = Ic (Perceived Intensity)	
$I_{ASS}\left(\frac{9}{355}\right)^{8} = I_{ASS}$	
$\left(\frac{9}{355}\right)^{\delta} = 1$	
From our checkboard experiment	
we found $g=191$ $\left(\frac{191}{255}\right)^{3}=\frac{1}{2}$	
Tating log on loth sides en (191) = en (1) 255)	
$ \delta \ln \left(\frac{191}{255}\right) = \ln \left(\frac{1}{2}\right) $	
8 = ln(1) - ln(191)	7
0 = 2.39	

<u>Q#3:</u>

When gamma is calculated it comes out to be 2.39 which is approximately equal to 2.4. Gamma is corrected using equation

Corrected = $255 * (Image/255) ^ (1/2.4)$.

