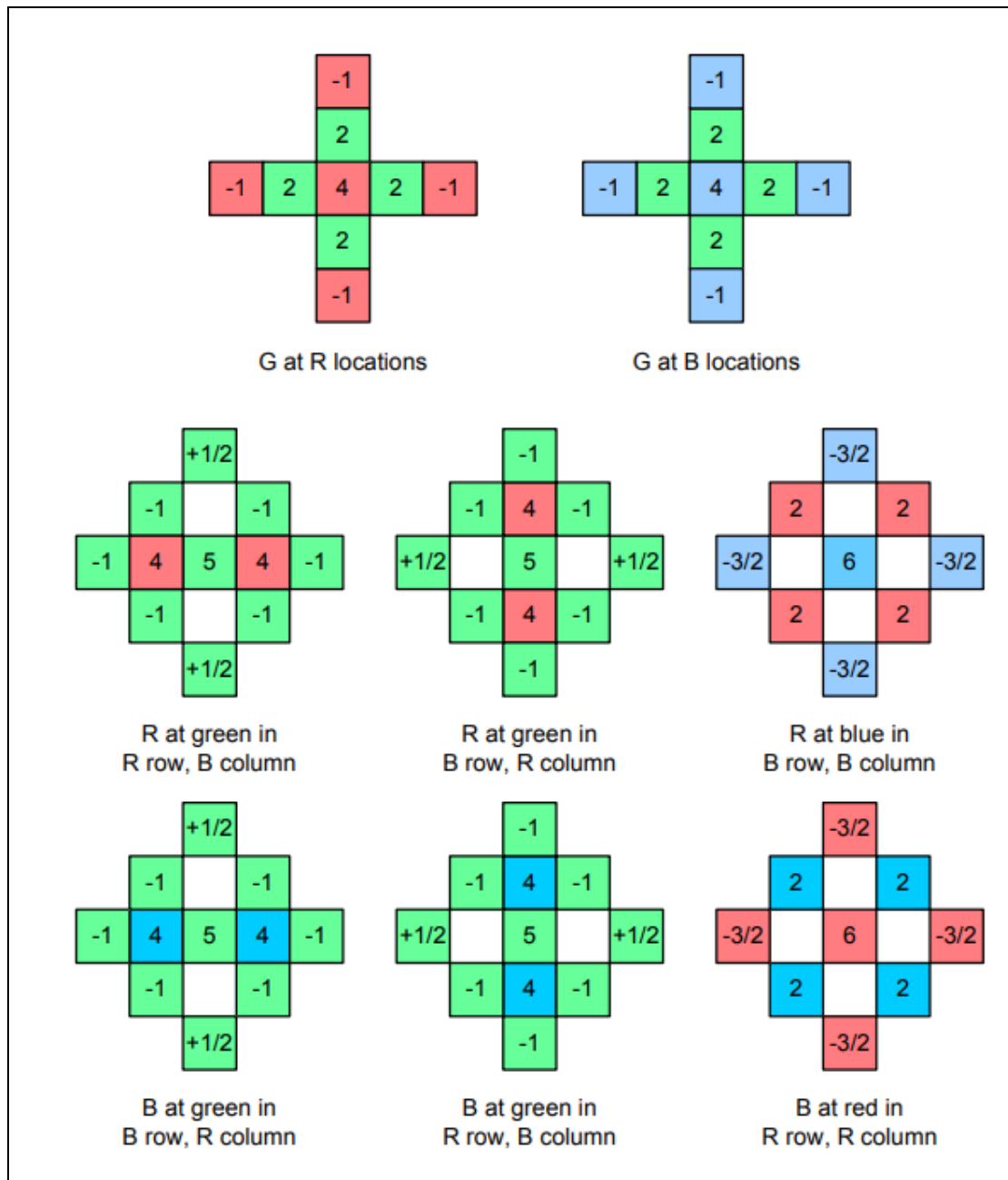


2023 Digital IC Design Homework 5

NAME	劉承軒		
Student ID	P771111079		
Simulation Result			
Functional simulation	Completed	Gate-level simulation	Completed
<pre> ***** ** Simulation Start ***** ***** ** Simulation completed successfully! ***** ** Note: \$finish : C:/Users/Leo/Desktop/code/DIC_ Time: 655580 ns Iteration: 1 Instance: /testfix - </pre>		<pre> sim> run -all ***** ** Simulation Start ***** ***** ** Simulation completed successfully! ***** ** Note: \$finish : C:/Users/Leo/Desktop/code/DIC_Assignm Time: 660700 ns Iteration: 1 Instance: /testfixture 1 </pre>	
Evaluation Results			
test1.png	31.21	test2.png	31.9
test3.png	34.82	test4.png	26.79
test5.png	29.56	test6.png	32.75
Description of your design			
<p>The method I use is referenced from the paper which title is “HIGH-QUALITY LINEAR INTERPOLATION FOR DEMOSAICING OF BAYER-PATTERNED COLOR IMAGES”. There will be different weights corresponding to the RGB channel that interpolate target channel value. The weight could refer to the following figure: Each value in the line buffer need to multiply their weights and the final result should divided by 8.</p>			



Scoring = average PSNR of the six test images

*** PSNR of all interpolation results should meet at least the baseline.**