AP® COMPUTER SCIENCE A 2012 SCORING GUIDELINES

Question 4: GrayImage

Part (a)	countWhitePixels	4 points	

Intent: Return the number of white pixels in the image

- +1 Accesses all entries in pixelValues (no bounds errors)
- +1 Compares an entry of array with WHITE or with 255 in context of iteration
- **+1** Initializes and increments a counter
- +1 Returns correct count of number of white pixels in pixelValues

Part (b)	processImage	5 points
(/	procesimonge	- p

Intent: Process elements of pixelValues and apply specified formula

- +1 Accesses all necessary elements in at least one row or one column of pixelValues
- +1 Accesses all necessary elements of pixelValues (no bounds errors)
- +1 Decrements element at index [a][b] by the original value found in element at index [a+2][b+2]
- +1 Modifies all and only appropriate elements of pixelValues (changes must not affect last two rows and columns)
- +1 Assigns BLACK or 0 to elements of pixelValues that would otherwise have a value less than BLACK (negative value)

Question-Specific Penalties

-1 (z) Attempts to return a value from processImage