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Cs 376 Assignment 0

Part 1 Responses:

2.

a) Gives us a vector of a random permutation of all the integers from 1 to 5588.

b) a is a 2x25 matrix, and b is simply a 1x25 row vector for the second row of a.

c) f is a 500x1 matrix of pseudorandom values, and g is all the values of f that are positive.

d) x is a 1x100 vector of 0.25, y is a 1x100 vector of 0.5, and z is a 1x100 vector of 0.75.

e) a is a 1x300 matrix, b is a 1x300 matrix with the elements of a, but flipped.

3.

a) plot(sort(reshape(A, 100 * 100, 1)))

b) hist(reshape(A, 100 * 100, 1), 32)

c) r_channel = zeros(100, 100)
g_channel = zeros(100, 100)
b_channel = zeros(100, 100)
r_channel(A > t) = 255
newImage = cat(3, r_channel, g_channel, b_channel)
imshow(newImage)

d) X = A(51:size(A, 1), 51:size(A, 2))

e) newImage = A - mean2(A)

f) function [] = roll()
ceil(rand(1) * 6)
end

g) z = reshape(y, 2, 3)

h) [x, I] = max(A(:))
[r, c] = ind2sub(size(A), I)

i) x = nnz(m == 8)

Part 2:

Original Images:

Image for a, b, d, e

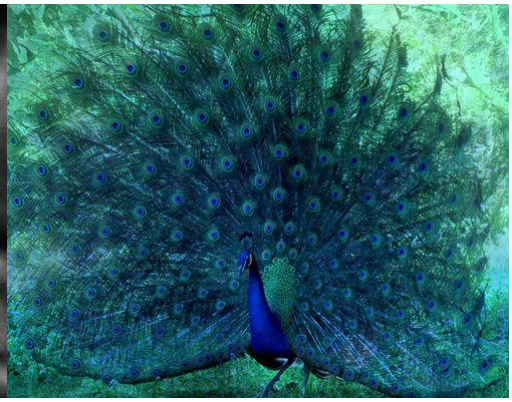

Image for part c

Screenshot of modified images: