Function descriptions
I = eye(10); Creates an identity matrix of size 10x10
A = [zeros(2,2), rand(2,2)]; Creates a matrix with a 2x2 matrix of zeros and a 2x2 matrix of random floats between (0,1)
a = A(:,2) Returns the 2nd column of the matrix A, The operation uses 1-based indexing
b = reshape(ones(10,1)*ones(1,10), [1,100]); Reshapes the 10x10 matrix of ones into a 1D array of length 100 of ones. Reshape is COLUMN-WISE.
a = sort(rand(1,100)); Creates and sorts a 1D array of 100 floats between (0,1)
b = a([end:-1:1]); A reversed array of a, from sorted ascending to descending
[u,v,w] = svd(rand(3,3)); Calculates the singular value decomposition of a random 3x3 matrix of values between (0,1)