Quiz 2

1. Create two vectors with length 12 whose elements are drawn from a uniform distribution (the interval that the elements are drawn from should be [0,2]).
2. Create a new vector with length 12 called "z" from vectors x and y in Question 1. If the i'th element of x is below 1, then the i'th elements of z is x[i]*y[i], otherwise the i'th element of z is just x[i]. Write a code that creates the vector z with a "for loop" and "if statement".

Quiz 2

3. Repeat Question 2, but now write a single line code that creates the vector "z"
4. Create a matrix called "`z_matrix`" from the vector z in Question 2 such that the matrix has 4 rows and 3 columns. You should transform the vector into a matrix, row by row. Then, use the "apply" function to calculate the summation of each row of the matrix "`z_matrix`".