The diag function has several uses, one of which is to take a vector as its input and create a square matrix with that vector on the diagonal. Create a 21-by-21 matrix with the sequence 10 to 0 to 11 (i.e., 11, 10, ..., 1, 0, 1, ..., 11).

Code	Solution
X<-c(10:0,1:11) x diag(x, nrow=21, ncol=21)	Solution