Quiz 2

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1. Generate a vector called **x** that is a sequence number from 1 to 9.

$$x = (1, 2, 3, 4, 5, 6, 7, 8, 9)$$

x <-

- 2. Select and show what is the 3rd element of the vector x.
- 3. Select the numbers greater than 3 in the vector x. Lets do it in two steps to help you understand the process

Step 1. Generate a vector of the same length, but with logical values (i.e., TRUE or FALSE) by # evaluating whether or not each element of x is greater than 3. Call this vector select

select <select</pre>

Step 2. Put this vector with logical values to select the sub-vector of x. Call it subvector

subvector <-

4. Using x to construct the following matrix

$$\begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{pmatrix}$$

matrix <-

5. Give names to your matrix.

$$\begin{pmatrix} & \text{First Second Third} \\ \text{Katy} & 1 & 2 & 3 \\ \text{Hunter} & 4 & 5 & 6 \\ \text{Carson} & 7 & 8 & 9 \end{pmatrix}$$

6. Use R to tell you what the respective dimensions of x and matrix.

dimension of x

dimension of matrix