List Linear Spaces

Definition: A list of length n is an ordered collection of n scalar's separated by commas and enclosed in square brackets.

$$\mathbf{x}=(x_1,x_2,\ldots,x_n)$$

Since the list is defined with the length, each list is finite. The objects with infinite length are called not lists but sequence **s**.

Many mathematicitians call a list of length n a **n-tuple**. A list of length 2 is called an **ordered pair**, a list of length 3 is called an **ordered triple**.

Lists are also called vectors.

$$\#\text{EE501}$$
 - Linear Systems Theory at METU