## **Sequential Search**

Check out the video lecture for a full breakdown, in this Notebook all we do is implement Sequential Search for an Unordered List and an Ordered List.

## **Sequential Search**

```
In [1]: def seq_search(arr,ele):
    """
    General Sequential Search. Works on Unordered lists.
    """

# Start at position 0
pos = 0
# Target becomes true if ele is in the List
found = False

# go until end of list
while pos < len(arr) and not found:

# If match
    if arr[pos] == ele:
        found = True

# Else move one down
else:
        pos = pos+1

return found</pre>
```

False

## **Ordered List**

If we know the list is ordered than, we only have to check until we have found the element or an element greater than it.

```
found = False
             # Stop marker
             stopped = False
             # go until end of list
             while pos < len(arr) and not found and not stopped:</pre>
                 # If match
                 if arr[pos] == ele:
                     found = True
                 else:
                     # Check if element is greater
                     if arr[pos] > ele:
                         stopped = True
                     # Otherwise move on
                     else:
                         pos = pos+1
             return found
In [7]: arr.sort()
        ordered_seq_search(arr,3)
In [8]:
        True
Out[8]:
```

# Target becomes true if ele is in the list

## Good Job!

ordered\_seq\_search(arr,1.5)

In [9]:

Out[9]:

False